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NEWS	8	OCT 21	Derwent World Patents Index Coverage of Indian and Taiwanese Content Expanded
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NEWS	12	DEC 01	FRFULL Content and Search Enhancements
NEWS	13	DEC 01	DGENE, USGENE, and PCTGEN: new percent identity feature for sorting BLAST answer sets
NEWS	14	DEC 02	Derwent World Patent Index: Japanese FI-TERM thesaurus added
NEWS	15	DEC 02	PCTGEN enhanced with patent family and legal status display data from INPADOCDB
NEWS	16	DEC 02	USGENE: Enhanced coverage of bibliographic and sequence information
NEWS	17	DEC 21	New Indicator Identifies Multiple Basic Patent Records Containing Equivalent Chemical Indexing in CA/CAPLUS
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L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SEARCH INITIATED 18:43:57 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 445 TO ITERATE

100.0% PROCESSED 445 ITERATIONS 8 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 7635 TO 10165
PROJECTED ANSWERS: 8 TO 329

L2 8 SEA SSS SAM L1

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ENTER TYPE OF SEARCH (SSS), CSS, FAMILY, OR EXACT:.
ENTER SCOPE OF SEARCH (SAMPLE), FULL, RANGE, OR SUBSET:full
FULL SEARCH INITIATED 18:44:04 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 8746 TO ITERATE

100.0% PROCESSED 8746 ITERATIONS 167 ANSWERS
SEARCH TIME: 00.00.01

L3 167 SEA SSS FUL L1

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ENTRY SESSION
FULL ESTIMATED COST 192.03 196.65

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FILE LAST UPDATED: 28 Jan 2010 (20100128/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2009

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

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=> s 13

L4 31 L3

=> d 14 fbib ab hitstr 1-31

L4 ANSWER 1 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN

AN 2009:176608 CAPLUS

DN 150:229659

TI Methods and compositions using peptides and other compounds for derepression of IAP (inhibitor of apoptosis protein)-inhibited caspase, and therapeutic use

IN Reed, John C.; Houghten, Richard A.; Nefzi, Adel; Ostresh, John M.; Pinilla, Clemencia; Welsh, Kate

PA The Burnham Institute, USA

SO U.S. Pat. Appl. Publ., 256pp., Cont.-in-part of U.S. Ser. No. 886m385. CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20090043099	A1	20090212	US 2007-982317	20071031
				WO 2006-US9695	W 20060317
				US 2008-886385	A2 20080822
	WO 2006102068	A2	20060928	WO 2006-US9695	20060317
	WO 2006102068	A3	20090611		
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				US 2005-84714	A 20050317
				US 2005-186629	A 20050719

PATENT FAMILY INFORMATION:

FAN 2006:977385

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PI	US 20060211627	A1	20060921	US 2005-186629	20050719
	US 7217688	B2	20070515		
				US 2005-84714	A2 20050317
	US 20070003535	A1	20070104	US 2005-84714	20050317
	CA 2601653	A1	20060928	CA 2006-2601653	20060317
				US 2005-84714	A 20050317
				US 2005-186629	A 20050719
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	WO 2006102068	A3	20090611		
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 US 2005-84714 A 20050317
 US 2005-186629 A 20050719
 EP 1865977 A2 20071219 EP 2006-738724 20060317
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 US 2005-84714 A 20050317
 US 2005-186629 A 20050719
 WO 2006-US9695 W 20060317
 JP 2008537735 T 20080925 JP 2008-502089 20060317
 US 2005-84714 A 20050317
 US 2005-186629 A 20050719
 WO 2006-US9695 W 20060317

OS MARPAT 150:229659

AB The invention provides isolated agents having novel chemical structures and possessing superior activity as derepressors of IAP-inhibited caspase. The invention further provides a method of derepressing an IAP-inhibited caspase. The invention further provides assay methods employing labeled compds. of the invention, especially fluorescent labeled compds. An advantage of an agent of the invention is that it can be used to allow apoptosis to occur in a cell where apoptosis is being prevented by the regulatory activity of an IAP. Also provided is a method of treating an individual having a condition characterized by a pathol. reduced level of apoptosis, e.g. cancer or hyperplasia, by administering an agent of the invention, wherein the agent derepresses an IAP-inhibited caspase, thereby increasing the level of apoptosis. Compds. of the invention include both peptides and nonpeptide compds., e.g. polyphenylurea compds.

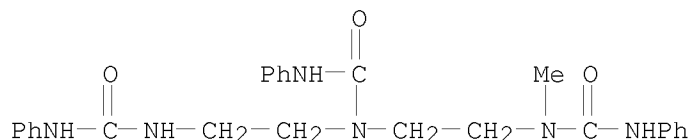
IT 1116141-36-6D, derivs.

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(IAP-inhibited caspase derepressor peptides and other compds., and therapeutic use)

RN 1116141-36-6 CAPLUS

CN Urea, N-[2-[methyl[(phenylamino)carbonyl]amino]ethyl]-N'-phenyl-N-[2-[[[(phenylamino)carbonyl]amino]ethyl]- (CA INDEX NAME)



L4 ANSWER 2 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN

AN 2009:82735 CAPLUS

DN 151:221154

TI Synthesis of N-thioureido lariat calix[4]crown and calix[4]arene

tetrathioureido derivatives

AU Zheng, Xiao-Hua; Yang, Fa-Fu; Tang, Fu-Sheng; Yin, Feng-Ju; Yang, Yan-Xin
CS College of Chemistry and Materials, Fujian Normal University, Fuzhou,
350007, Peop. Rep. China

SO Youji Huaxue (2008), 28(12), 2159-2161
CODEN: YCHHDX; ISSN: 0253-2786

PB Youji Huaxue Bianjibu

DT Journal

LA Chinese

AB A method for the synthesis of the title compds. is reported here. Under control of the molar ratio of reactants, a calix[4]-aza-crown ether derivative and a ring-opened aza-calix[4]arene derivative were obtained by a reaction of 2,2'-[[26,28-dihydroxy-5,11,17,23-tetrakis(tert-butyl)calix[4]arene]bis(oxy)]bis[acetic acid] 1,1'-diethyl ester with N1-(2-aminoethyl)-1,2-ethanediamine. A reaction of the above-mentioned intermediates with Ph isothiocyanate delivered the title compds. (92% and 87% yield, resp.). The structures and conformations of new compds. were characterized by elemental analyses, IR, ESI-MS, ¹H NMR etc.

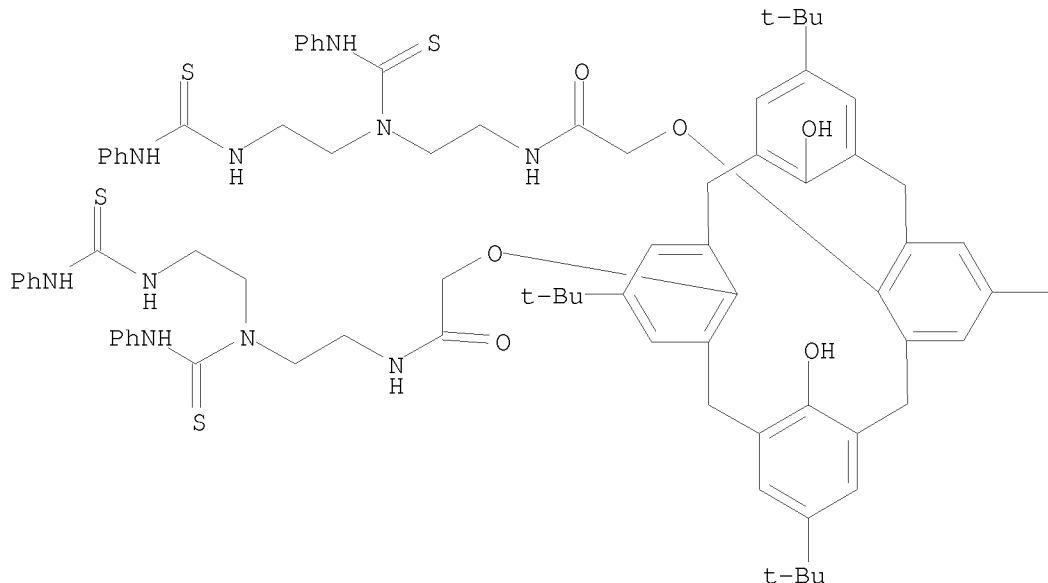
IT 1072839-60-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of calix[4]arene thiourea derivs.)

RN 1072839-60-1 CAPLUS

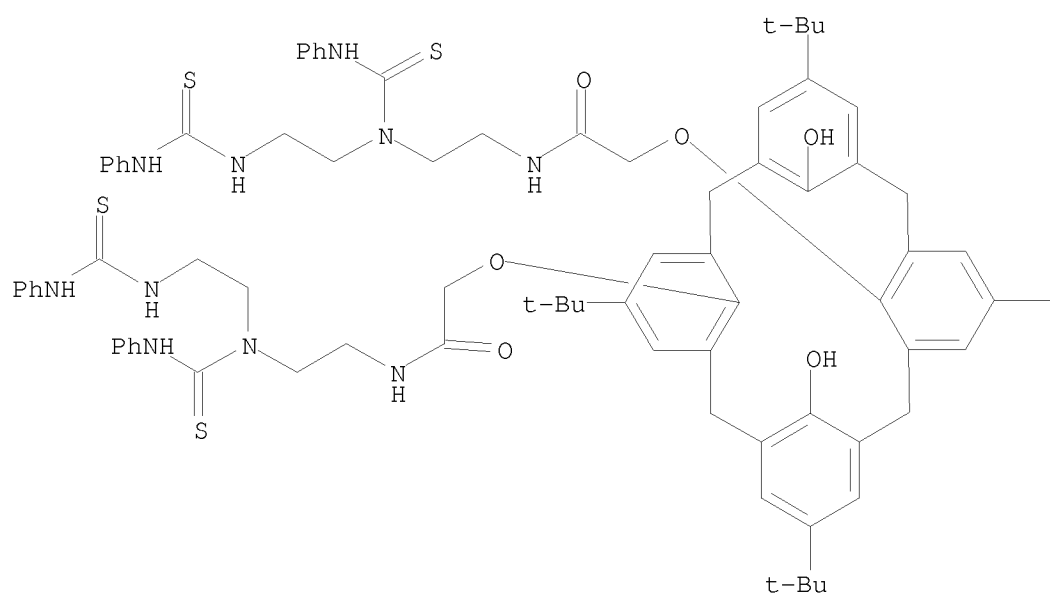
CN Acetamide, 2,2'-[[5,11,17,23-tetrakis(1,1-dimethylethyl)-26,28-dihydroxypentacyclo[19.3.1.13,7.19,13.115,19]octacosa-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-25,27-diyl]bis(oxy)]bis[N-[2-[[(phenylamino)thioxomethyl] [2-[[(phenylamino)thioxomethyl]amino]ethyl]amino]ethyl]- (CA INDEX NAME)

PAGE 1-A



—Bu-t

L4 ANSWER 3 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2007:1472762 CAPLUS
 DN 149:493360
 TI Synthesis of calix[4]arene-thiourea derivative
 AU Zheng, Xiao-hua; Yang, Fa-fu; Liu, Li-ming; Guo, Yu
 CS College of Chemistry and Materials Science, Fujian Normal University,
 Fuzhou, 350007, Peop. Rep. China
 SO Hecheng Huaxue (2007), 15(5), 597-598
 CODEN: HEHUE2; ISSN: 1005-1511
 PB Hecheng Huaxue Bianjibu
 DT Journal
 LA Chinese
 OS CASREACT 149:493360
 AB The treatment of 2,2'-[[5,11,17,23-tetrakis(1,1-dimethylethyl)-26,28-
 dihydroxy[calix[4]arene]-25,27-diyl]bis(oxy)]bis[acetic acid] di-Et ester
 with excess diethylenetriamine gave
 2,2'-[[5,11,17,23-tetrakis(1,1-dimethylethyl)-26,28-
 dihydroxy[calix[4]arene]-25,27-diyl]bis(oxy)]bis[N-[2-(2-
 aminoethyl)ethyl]acetamide]. Treatment of the latter amide derivative with
 (isothiocyanato)benzene provided a new calix[4]arene derivative with four
 thiourea units. The structure was characterized by ¹H NMR, IR, MS and
 elemental anal.
 IT 1072839-60-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of calix[4]arene-thiourea derivative)
 RN 1072839-60-1 CAPLUS
 CN Acetamide, 2,2'-[[5,11,17,23-tetrakis(1,1-dimethylethyl)-26,28-
 dihydroxypentacyclo[19.3.1.13,7.19,13.115,19]octacosa-
 1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-25,27-
 diyl]bis(oxy)]bis[N-[2-[(phenylamino)thioxomethyl][2-
 [(phenylamino)thioxomethyl]amino]ethyl]amino]ethyl]- (CA INDEX NAME)

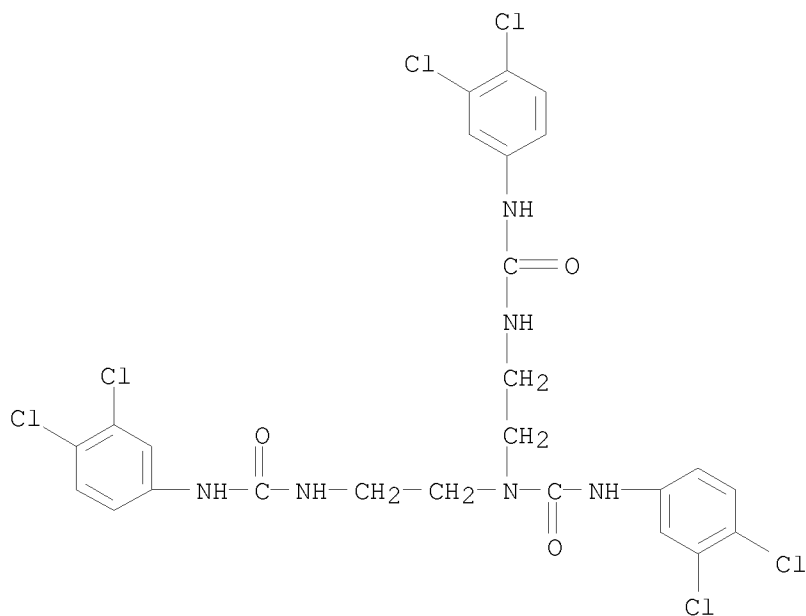


—Bu-t

L4 ANSWER 4 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2006:38992 CAPLUS
 DN 144:292512
 TI Solid-Supported Copper Catalysts for Atom-Transfer Radical Cyclizations:
 Assessment of Support Type and Ligand Structure on Catalyst Performance in
 the Synthesis of Nitrogen Heterocycles
 AU Clark, Andrew J.; Geden, Joanna V.; Thom, Stephen
 CS Department of Chemistry, University of Warwick, West Midlands, CV4 7AL, UK
 SO Journal of Organic Chemistry (2006), 71(4), 1471-1479
 CODEN: JOCEAH; ISSN: 0022-3263
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 144:292512
 AB A range of solid-supported pyridinemethanimine (PMI) and polyamine ligands
 were prepared on SiO₂, polystyrene (P), and JandaJel (JJ) supports. The

CuCl and CuBr complexes of these supported ligands were used to assess both the effect of the ligand type and the nature of the support upon a representative range of Cu-mediated atom transfer radical cyclizations of 5-exo-trig Cl₃CCON(Ts)CH₂CH:CH₂ (6), BrCMe₂CONTsCH₂CH:CH₂ (24), MeCCl₂CONTsCH₂CH:CH₂ (25), 5-exo-dig Me₂CBrNTsCH₂C.tplbond.CH (26), 4-exo-trig Me₂CBrCONBnC:C(CH₂)₅ (28), and 5-endo-trig derivs. Me₂CBrCON(CH₂Ph)R (R = 1-cyclohexen-1-yl, 27) and MeCHBrCON(CH₂Ph)R (R = 1-cyclohexen-1-yl, 38) to give N-heterocycles. The effect of the nature of the support on the stereochem. outcome of the 5-exo cyclization of 25 was probed. Generally, the type of support (e.g., polystyrene, SiO₂, or JandaJel) had very little effect upon the efficiency and selectivity of the processes, but the nature of the ligand type immobilized was the important factor. Thus, the 5-exo cyclization of 6 and 24-26 proceeded more rapidly with the PMI ligands, whereas 4-exo cyclizations 28 and 5-endo radical polar crossover reactions 27 and 38 proceeded more efficiently with the JJ-TEDETA ligand [Et₂NCH₂CH₂]₂NCH₂CH₂CO₂-JJ (15). The efficiency of the supported ligands was also compared to their solution counterparts. The reusability of P-PMDETA ligand system, Me₂NCH₂CH₂NMeCH₂CH₂NMeCH₂CH₂CH₂-P (13), was assessed in the cyclization of 6.

IT 878408-78-7DP, alkyl-linked polystyrene-supported
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 878408-78-7 CAPLUS
 CN Urea, N'-(3,4-dichlorophenyl)-N,N-bis[2-[[[(3,4-dichlorophenyl)amino]carbonyl]amino]ethyl]- (CA INDEX NAME)



OSC.G 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (17 CITINGS)
 RE.CNT 68 THERE ARE 68 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2005:823561 CAPLUS
 DN 143:229578

TI Preparation of diurea derivatives as inhibitors of the production of
 pro-inflammatory cytokines, especially interleukin-2 (IL-2)
 IN Abramo, Aina Lisbeth; Pettersson, Lars Olof Goeran; Andersson, Kerstin
 Ingalill; Sundstedt, Asa Anette
 PA Active Biotech AB, Swed.
 SO PCT Int. Appl., 58 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005074919	A1	20050818	WO 2005-SE54	20050119
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				WO 2005-SE54	W 20050119

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS CASREACT 143:229578; MARPAT 143:229578

AB The title compds. I [A = (un)substituted Ph, naphthyl, pyridyl, etc.; R1 = dimethylamino, diethylamino, pyrrolidino, etc.; Y = halo, dimethylamino, methoxy, etc.; Z = O, S; n = 1-3; m = 2-4] that block intracellular signal transduction and thereby inhibit the production of pro-inflammatory cytokines, especially interleukin-2 (IL-2) and/or induce apoptosis in activated T-cells, were prepared Thus, reacting 1-isocyanato-4-trifluoromethylbenzene with N1-[2-(pyrrolidin-1-yl)ethyl]ethane-1,2-diamine (preparation given) in CH₂Cl₂ afforded 80% 1-[2-(pyrrolidin-1-yl)ethyl]-3-(4-trifluoromethylphenyl)-1-{2-[3-(4-trifluoromethylphenyl)ureido]ethyl}urea which showed IC₅₀ of 3 μ M against PMA/Ionomycin stimulated IL-2 production in human T-cells. The invention further discloses such a compound I for use as a medicament, the use of said compound I for the manufacturing of a medicament for the treatment

of immune disorders which benefit from inhibition of production of IL-2 and other pro-inflammatory cytokines and/or induction of apoptosis in activated T-cells, a pharmaceutical composition comprising said compound I and a method of treatment comprising administration of a pharmaceutically effective amount of said compound I.

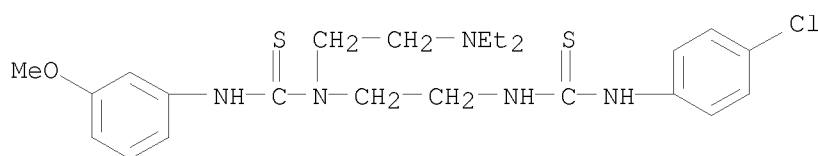
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1044679-75-5 1044679-80-2

RL: PRPH (Prophetic)

(Preparation of diurea derivatives as inhibitors of the production of pro-inflammatory cytokines, especially interleukin-2 (IL-2))

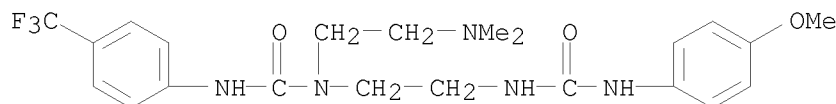
RN 1044678-69-4 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



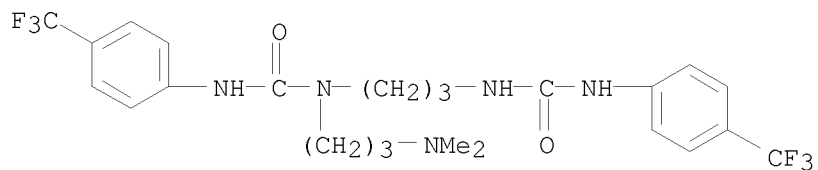
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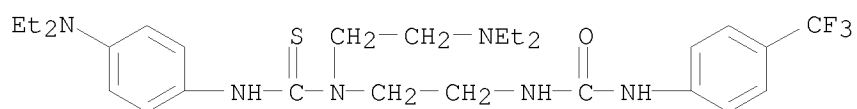
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CN INDEX NAME NOT YET ASSIGNED



RN 1044678-87-6 CAPLUS

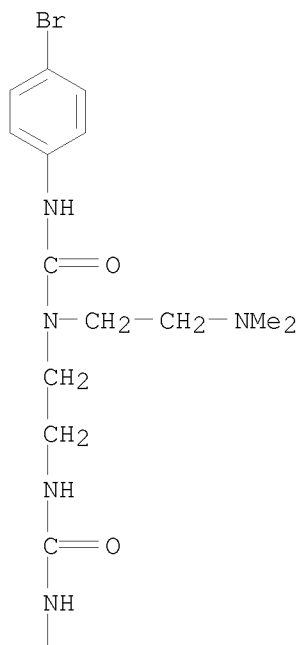
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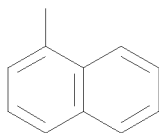
RN 1044678-90-1 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A

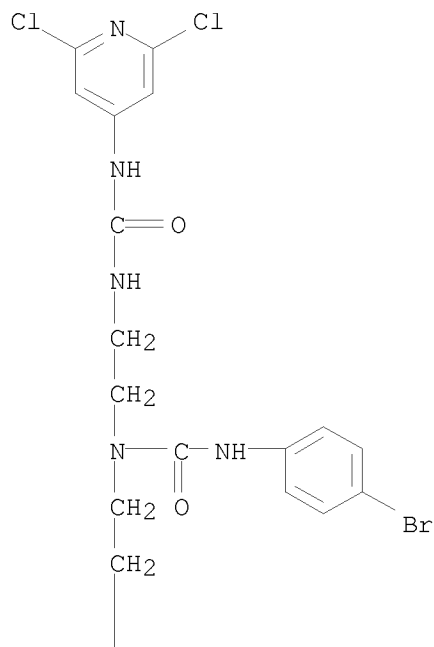


PAGE 2-A

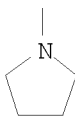


RN 1044678-92-3 CAPLUS
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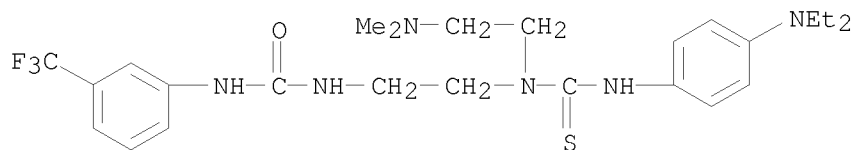
PAGE 1-A



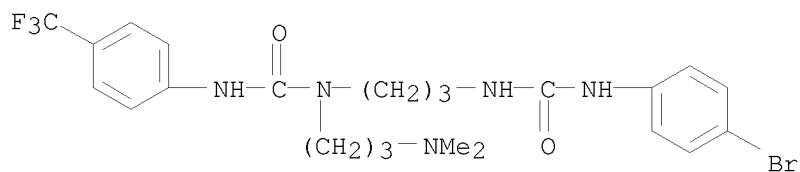
PAGE 2-A



RN 1044678-94-5 CAPLUS
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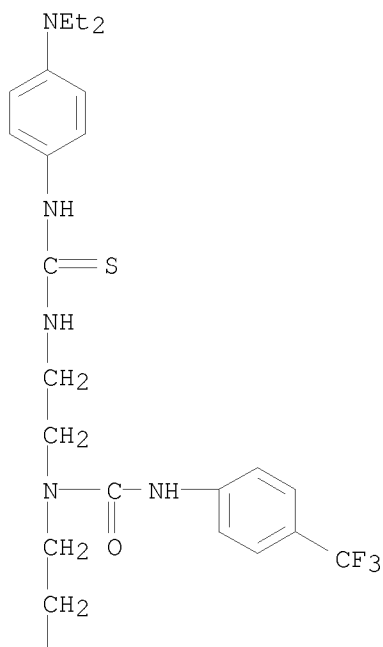


RN 1044678-96-7 CAPLUS
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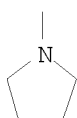


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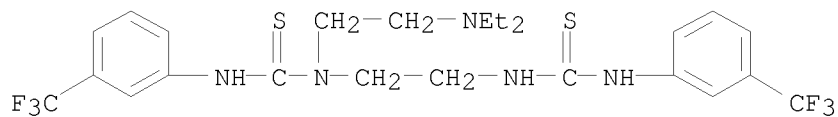
PAGE 1-A



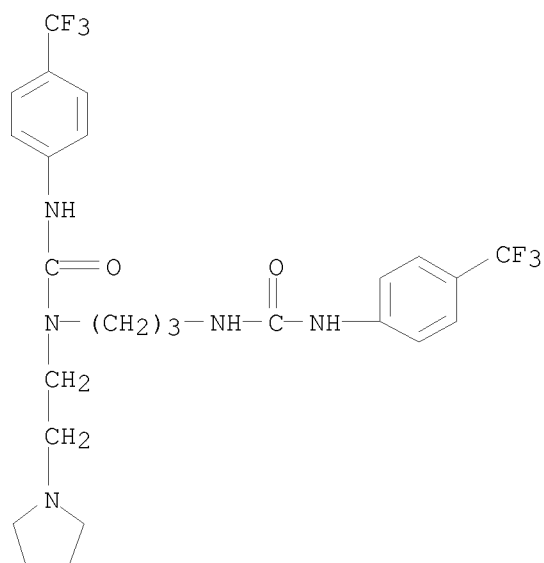
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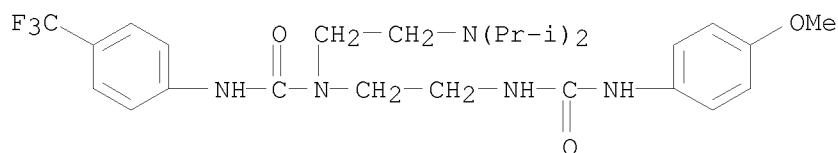
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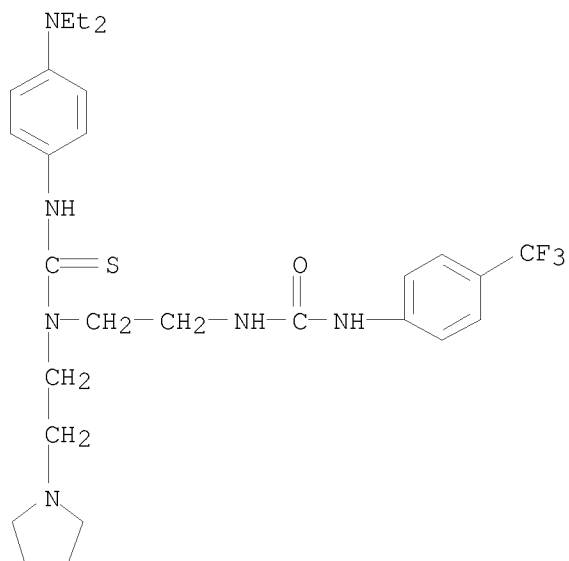
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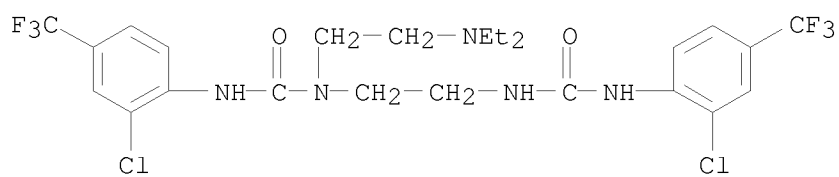
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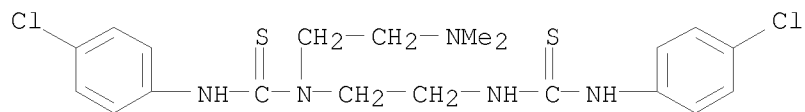
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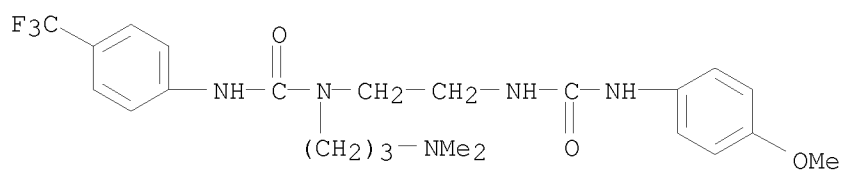
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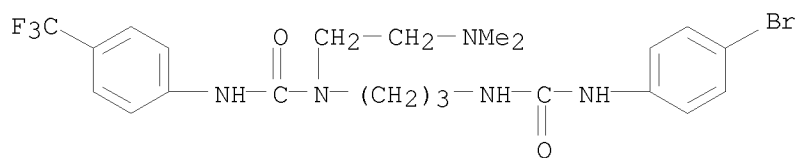
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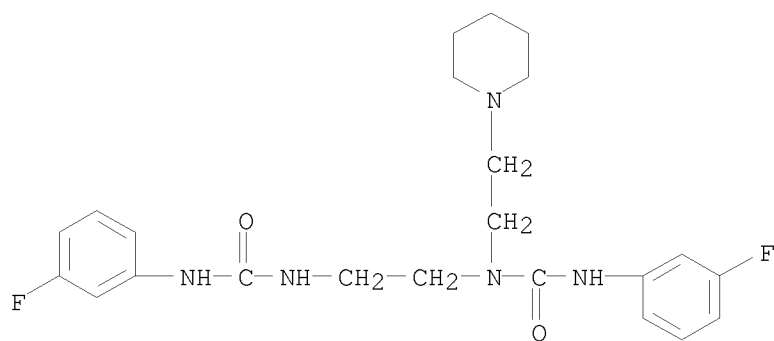
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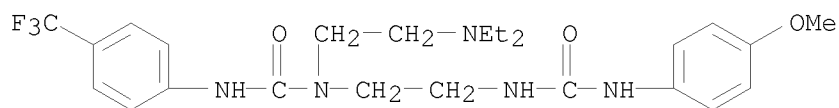
RN 1044679-30-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



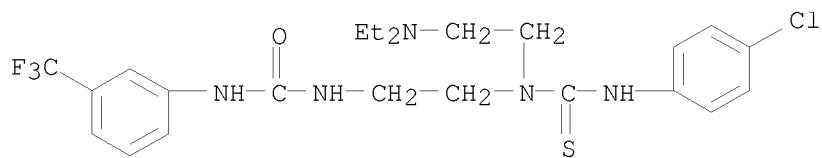
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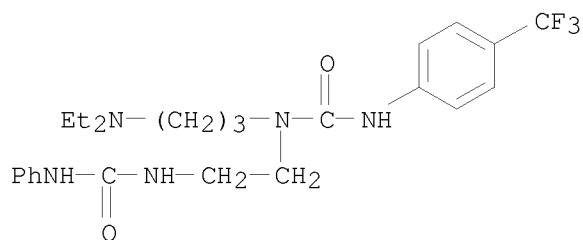
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CN INDEX NAME NOT YET ASSIGNED



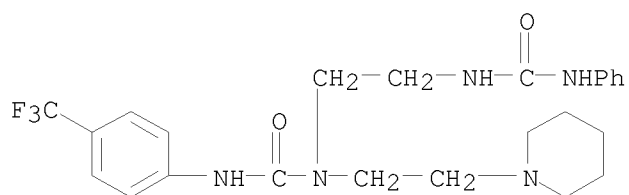
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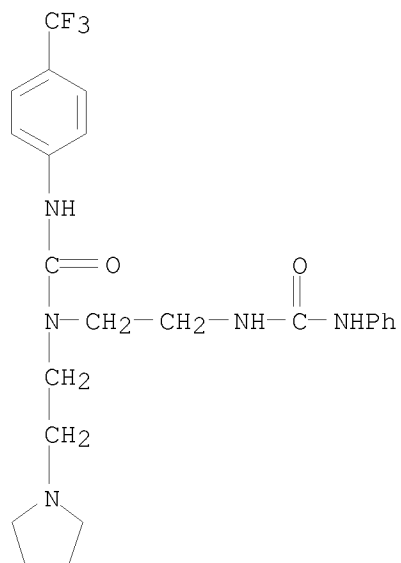
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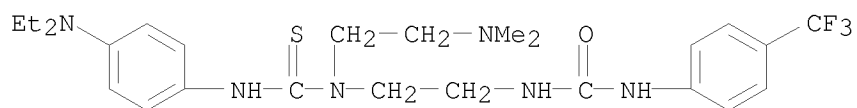
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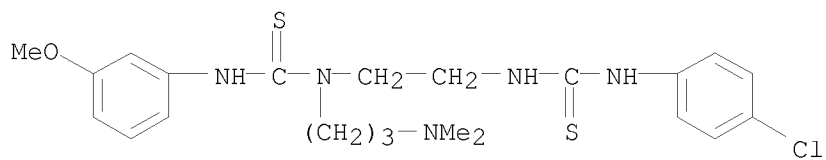
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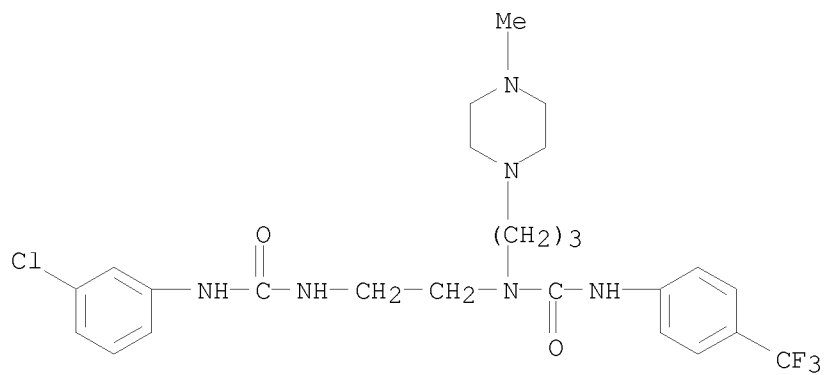
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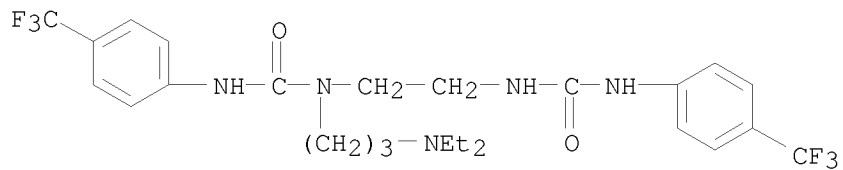
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CN INDEX NAME NOT YET ASSIGNED



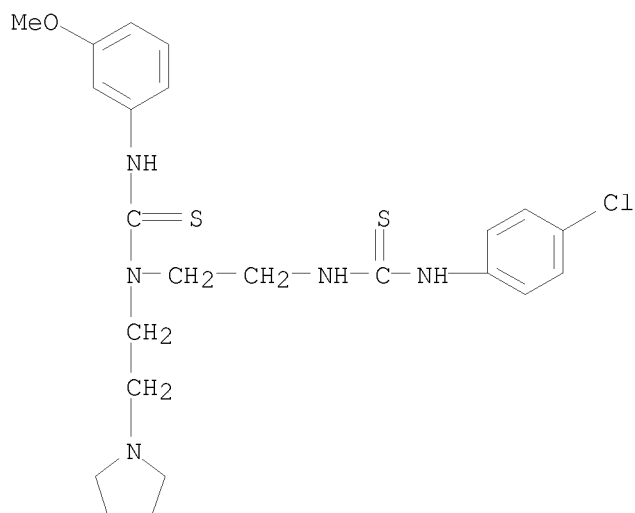
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CN INDEX NAME NOT YET ASSIGNED



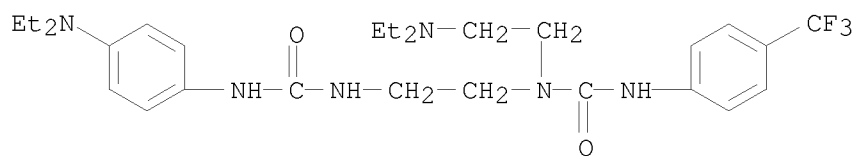
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CN INDEX NAME NOT YET ASSIGNED



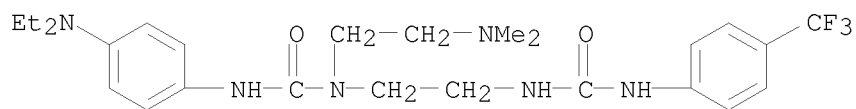
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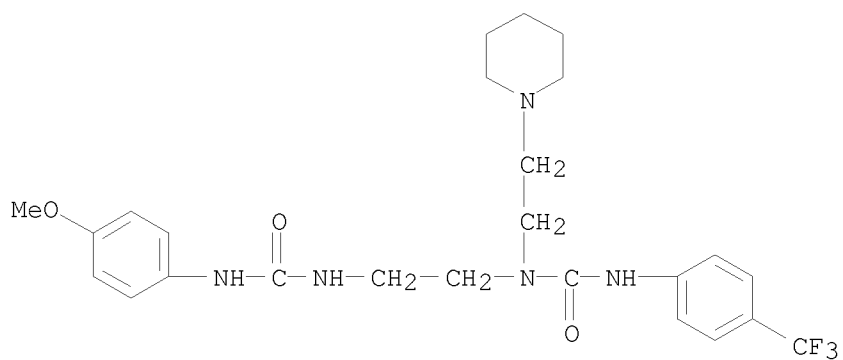
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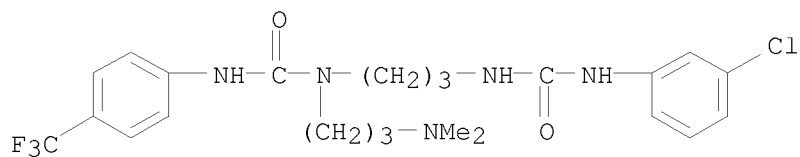
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CN INDEX NAME NOT YET ASSIGNED



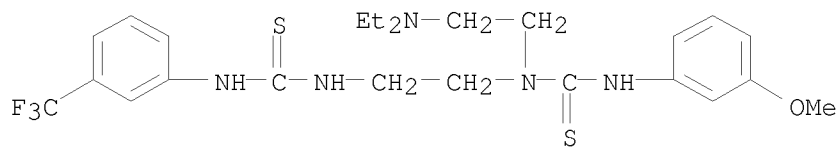
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CN INDEX NAME NOT YET ASSIGNED



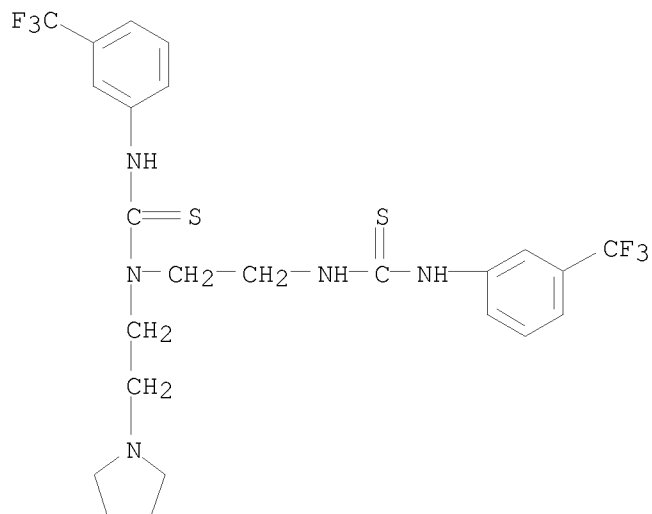
RN 1044679-67-5 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED



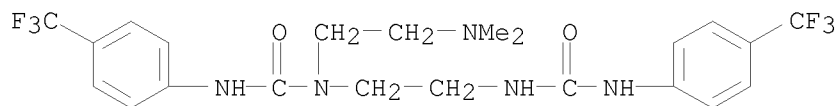
RN 1044679-68-6 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED



RN 1044679-75-5 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED



RN 1044679-80-2 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED



IT 862807-90-7P 862807-92-9P 862807-94-1P

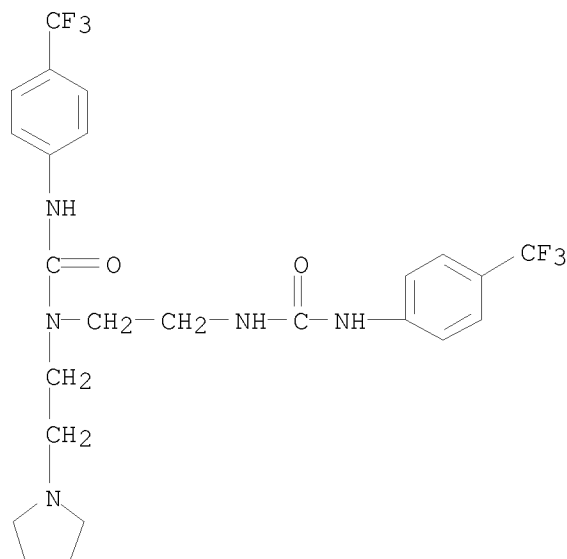
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862809-05-0P	862809-09-4P	

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of diurea derivs. as inhibitors of the production of pro-inflammatory cytokines, especially interleukin-2 (IL-2))

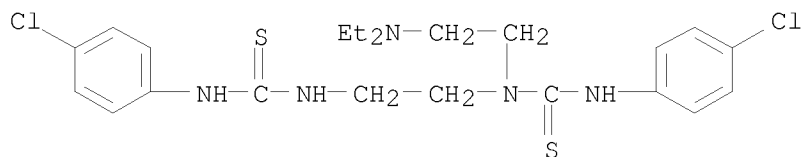
RN 862807-90-7 CAPLUS

CN Urea, N-[2-[[2-(1-pyrrolidinyl)ethyl]][[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



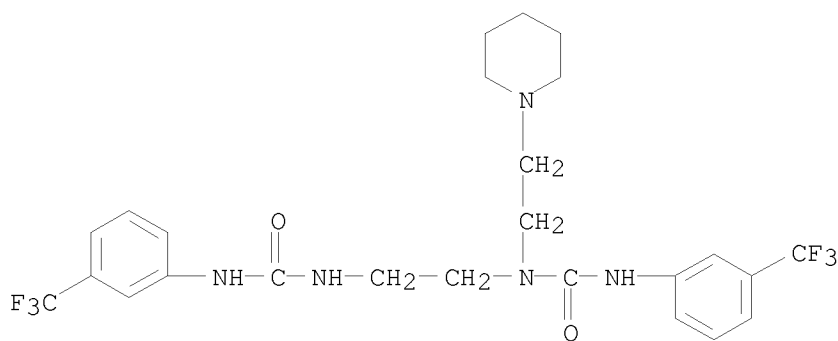
RN 862807-92-9 CAPLUS

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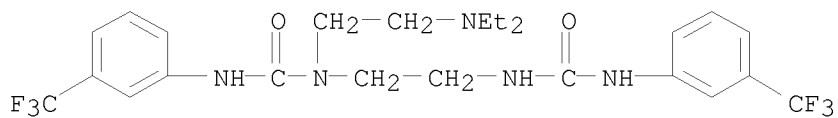
RN 862807-94-1 CAPLUS

CN Urea, N-[2-[[2-(1-piperidinyl)ethyl]amino]ethyl]-N'-[3-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N'-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 862807-96-3 CAPLUS

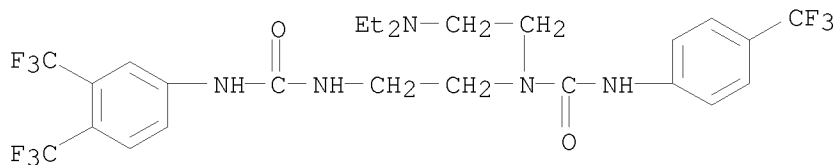
CN Urea, N-[2-[[2-(diethylamino)ethyl]amino]ethyl]-N'-[3-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N'-[3-(trifluoromethyl)phenyl]-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

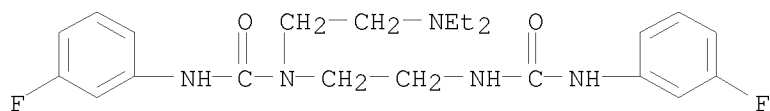
RN 862807-98-5 CAPLUS

CN Urea, N-[2-[[[3,4-bis(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N-[2-(diethylamino)ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 862808-00-2 CAPLUS

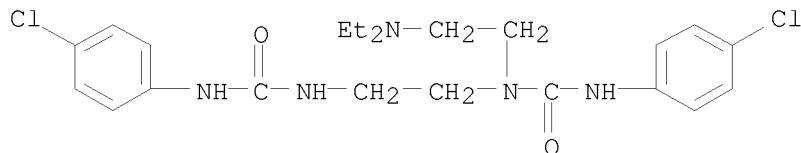
CN Urea, N-[2-[[2-(diethylamino)ethyl][[(3-fluorophenyl)amino]carbonyl]amino]ethyl]-N'-(3-fluorophenyl)-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

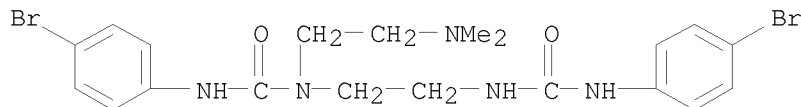
RN 862808-02-4 CAPLUS

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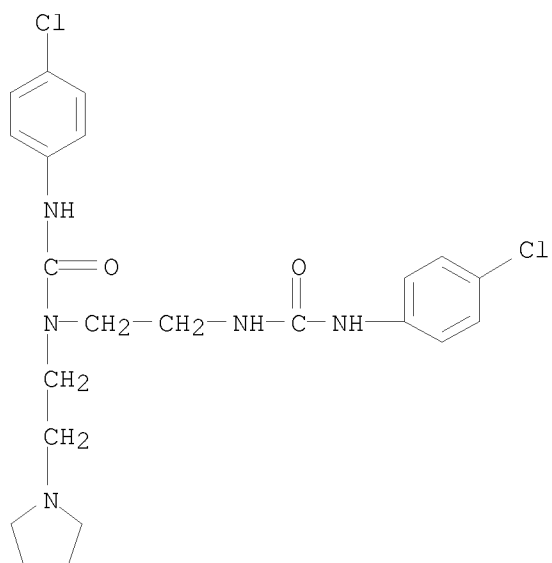
RN 862808-04-6 CAPLUS

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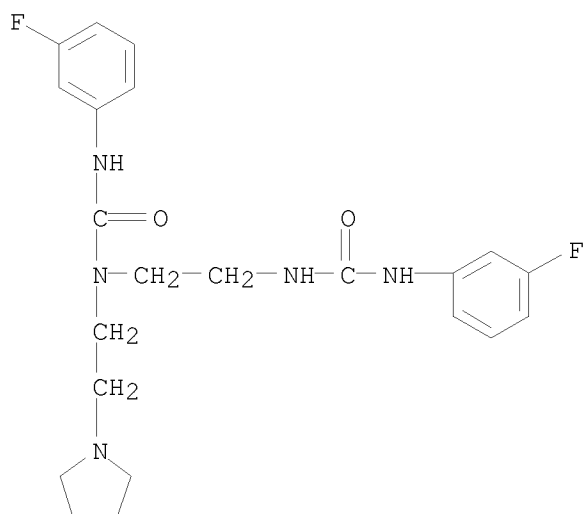
RN 862808-06-8 CAPLUS

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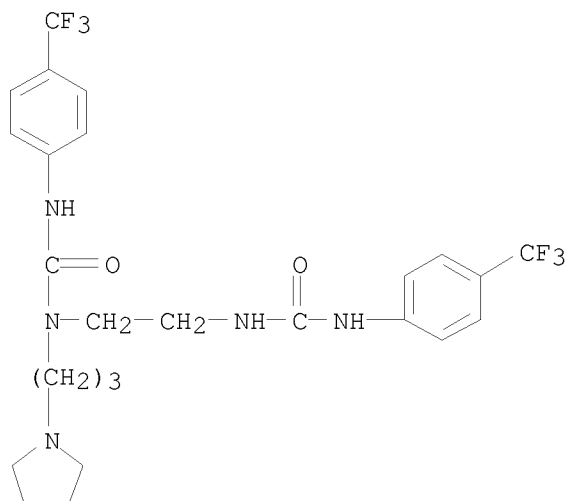
RN 862808-08-0 CAPLUS

CN Urea, N'-(3-fluorophenyl)-N-[2-[[[3-fluorophenyl)amino]carbonyl]amino]ethyl]-N-[2-(1-pyrrolidiny)ethyl]- (CA INDEX NAME)



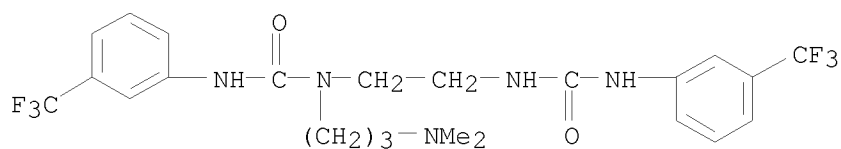
RN 862808-10-4 CAPLUS

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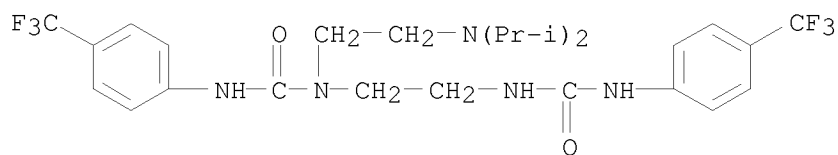
RN 862808-12-6 CAPLUS

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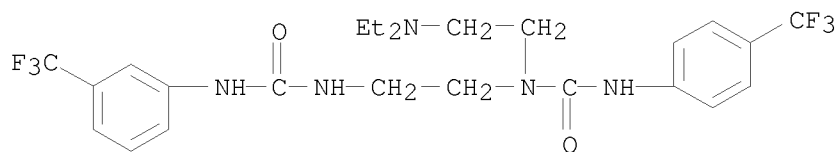
RN 862808-14-8 CAPLUS

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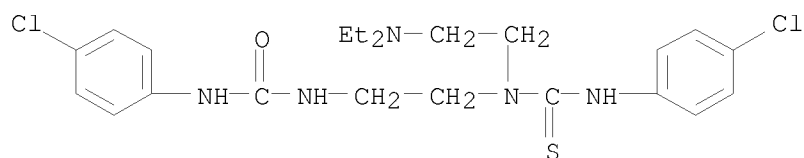
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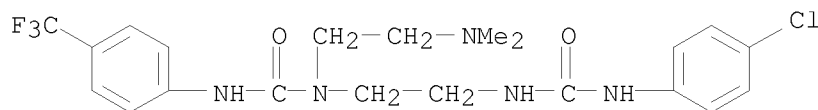
RN 862808-20-6 CAPLUS

CN Urea, N-(4-chlorophenyl)-N'-[2-[[[(4-chlorophenyl)amino]thioxomethyl][2-(diethylamino)ethyl]amino]ethyl]- (CA INDEX NAME)



RN 862808-22-8 CAPLUS

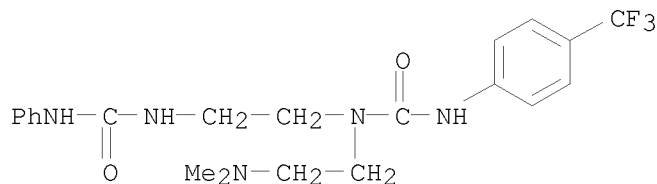
CN Urea, N-[2-[[[(4-chlorophenyl)amino]carbonyl]amino]ethyl]-N-[2-(dimethylamino)ethyl]-N'-[4-(trifluoromethyl)phenyl]-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

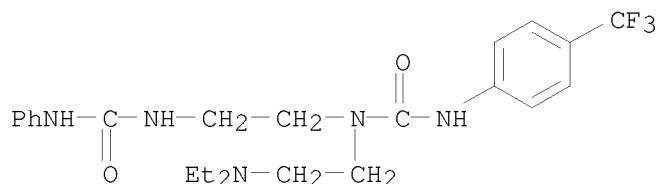
RN 862808-24-0 CAPLUS

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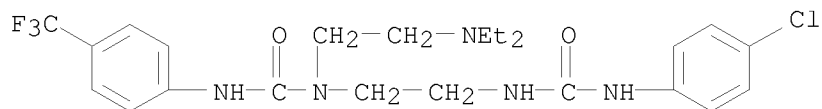
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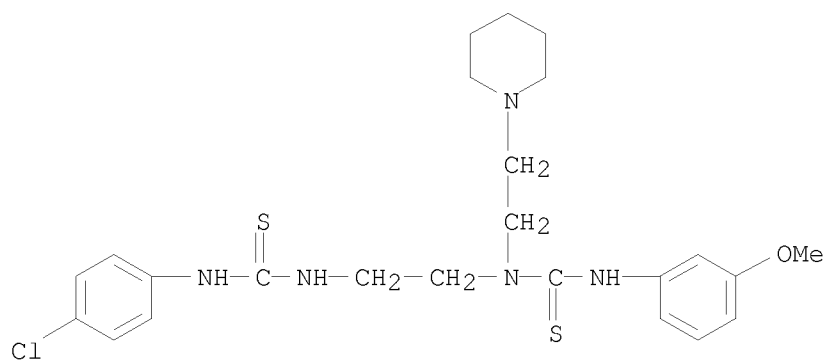
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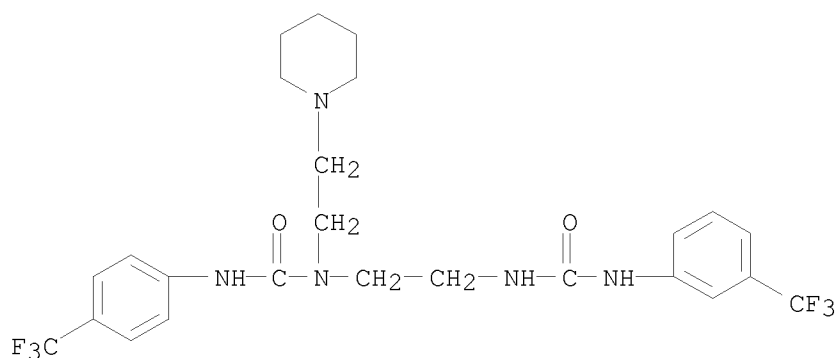
RN 862808-30-8 CAPLUS

CN Thiourea, N-[2-[[[(4-chlorophenyl)amino]thioxomethyl]amino]ethyl]-N'-(3-methoxyphenyl)-N-[2-(1-piperidiny)ethyl]- (CA INDEX NAME)



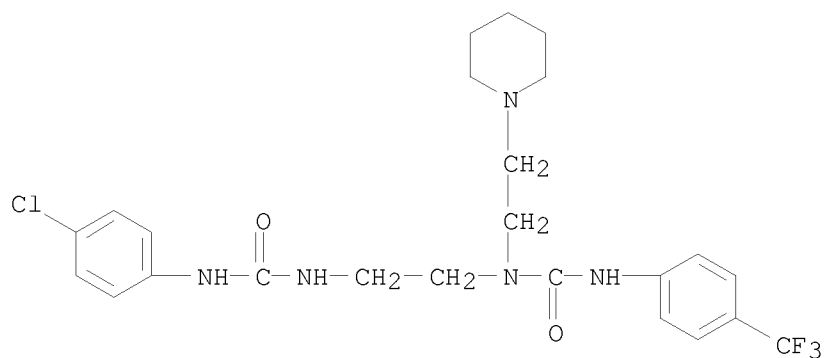
RN 862808-32-0 CAPLUS

CN Urea, N-[2-[[2-(1-piperidiny)ethyl] [[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N'-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



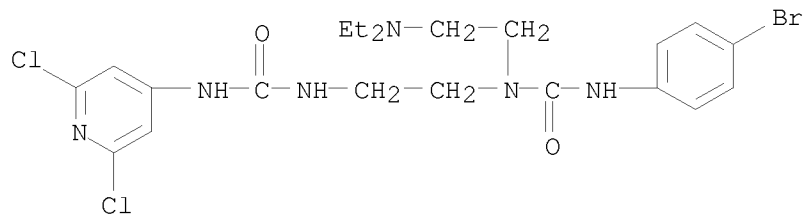
RN 862808-34-2 CAPLUS

CN Urea, N-[2-[[[(4-chlorophenyl)amino]carbonyl]amino]ethyl]-N-[2-(1-piperidiny)ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



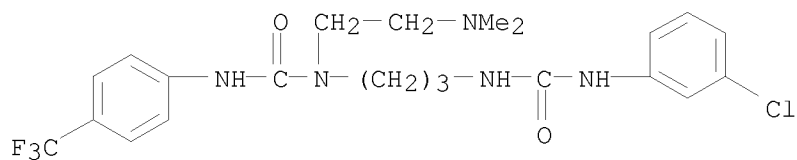
RN 862808-38-6 CAPLUS

CN Urea, N-[2-[[[(4-bromophenyl)amino]carbonyl][2-(diethylamino)ethyl]amino]ethyl]-N'-(2,6-dichloro-4-pyridinyl)- (CA INDEX NAME)



RN 862808-40-0 CAPLUS

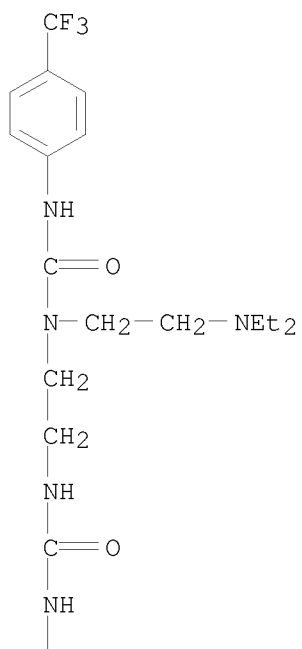
CN Urea, N-[3-[[[(3-chlorophenyl)amino]carbonyl]amino]propyl]-N-[2-(dimethylamino)ethyl]-N'-(4-(trifluoromethyl)phenyl)- (CA INDEX NAME)



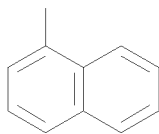
RN 862808-42-2 CAPLUS

CN Urea, N-[2-(diethylamino)ethyl]-N-[2-[(1-naphthalenylamino)carbonyl]amino]ethyl]-N'-(4-(trifluoromethyl)phenyl)- (CA INDEX NAME)

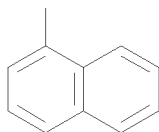
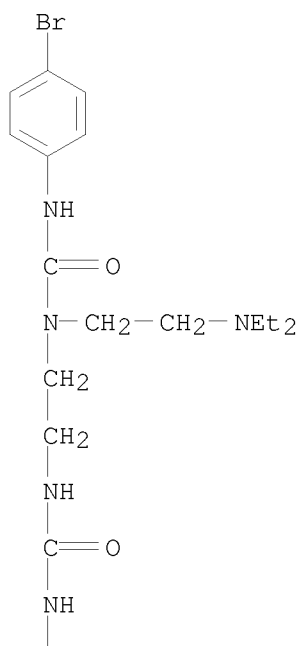
PAGE 1-A



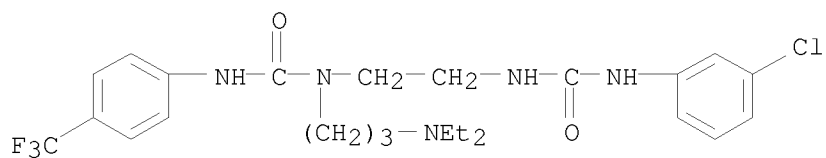
PAGE 2-A



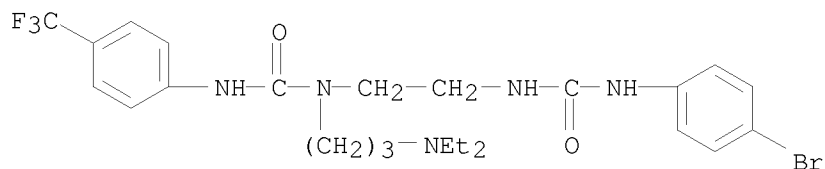
RN 862808-44-4 CAPLUS
CN Urea, N-[2-[[[4-bromophenyl]amino]carbonyl][2-(diethylamino)ethyl]amino]ethyl-N'-1-naphthalenyl- (CA INDEX NAME)



RN 862808-46-6 CAPLUS
 CN Urea, N-[2-[[[(3-chlorophenyl)amino]carbonyl]amino]ethyl]-N-[3-(diethylamino)propyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

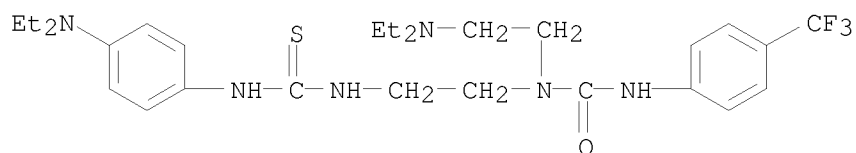


RN 862808-48-8 CAPLUS
 CN Urea, N-[2-[[[(4-bromophenyl)amino]carbonyl]amino]ethyl]-N-[3-(diethylamino)propyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



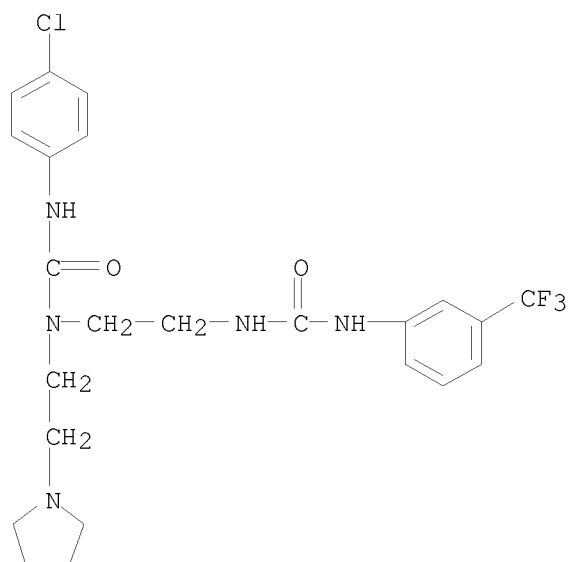
RN 862808-50-2 CAPLUS

CN Urea, N-[2-(diethylamino)ethyl]-N-[2-[[[4-(trifluoromethyl)phenyl]amino]thioxomethyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



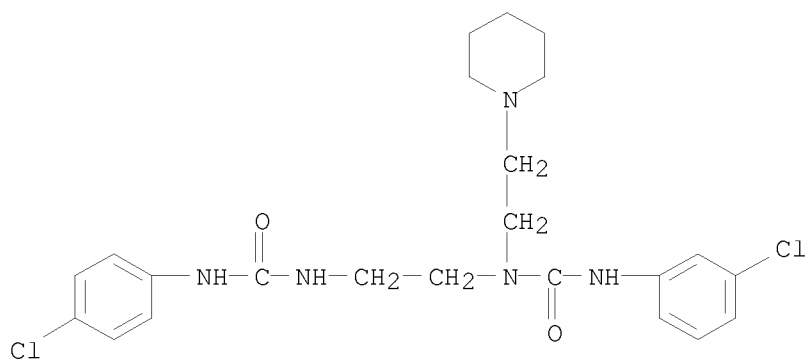
RN 862808-52-4 CAPLUS

CN Urea, N-[2-[[[4-chlorophenyl]amino]carbonyl][2-(1-pyrrolidinyl)ethyl]amino]ethyl]-N'-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)

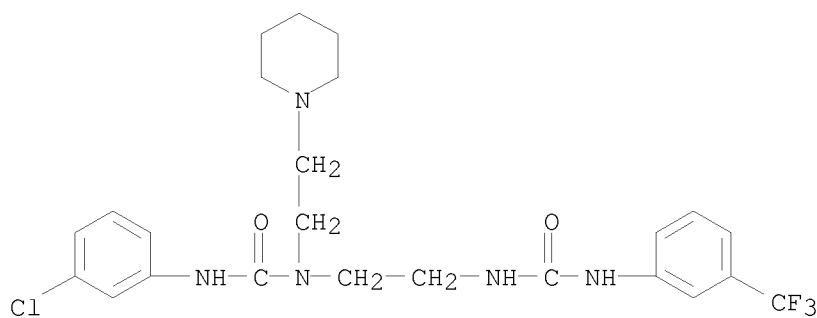


RN 862808-54-6 CAPLUS

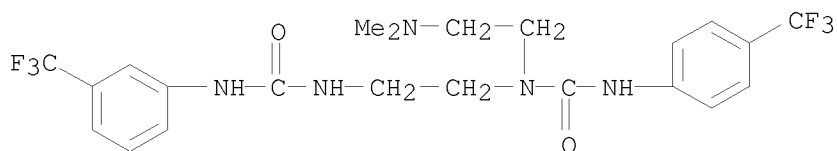
CN Urea, N'-[3-chlorophenyl]-N-[2-[[[4-chlorophenyl]amino]carbonyl]amino]ethyl]-N-[2-(1-piperidinyl)ethyl]- (CA INDEX NAME)



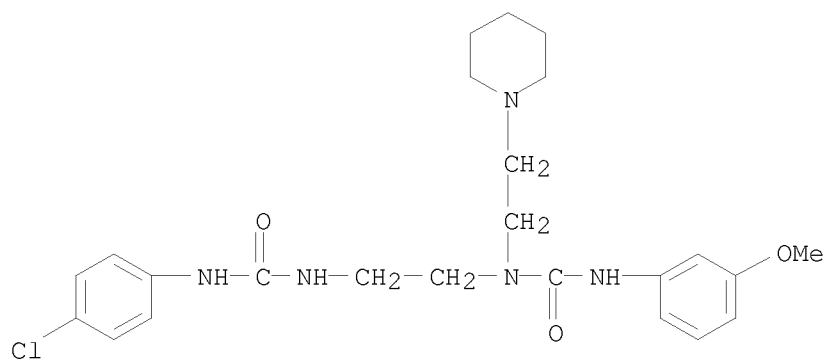
RN 862808-56-8 CAPLUS
 CN Urea, N-[2-[[[3-chlorophenyl]amino]carbonyl][2-(1-piperidinyl)ethyl]amino]ethyl]-N'-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



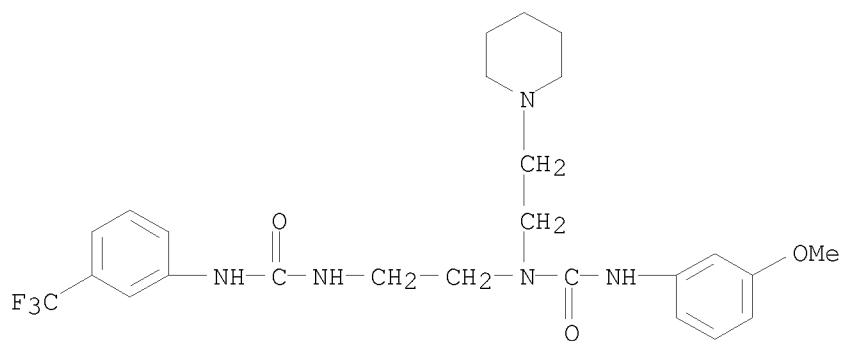
RN 862808-58-0 CAPLUS
 CN Urea, N-[2-[[2-(dimethylamino)ethyl][[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N'-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 862808-60-4 CAPLUS
 CN Urea, N-[2-[[[4-chlorophenyl]amino]carbonyl]amino]ethyl]-N'-[3-methoxyphenyl]-N-[2-(1-piperidinyl)ethyl]- (CA INDEX NAME)

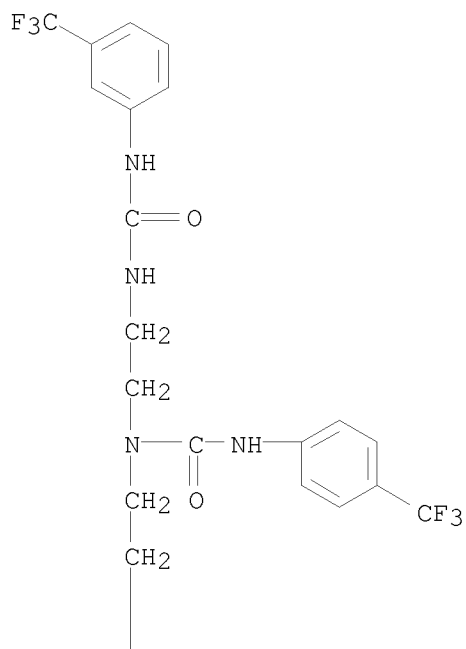


RN 862808-62-6 CAPLUS
 CN Urea, N-[2-[[[3-(4-methoxyphenyl)amino]carbonyl][2-(1-piperidinylethyl)amino]ethyl]-N'-[3-(4-trifluoromethylphenyl)amino]ethyl]-N'-[3-(4-trifluoromethylphenyl)amino]ethyl]urea (CA INDEX NAME)

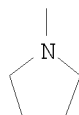


RN 862808-64-8 CAPLUS
 CN Urea, N-[2-[[[2-(1-pyrrolidinylethyl)amino]carbonyl][2-(1-pyrrolidinylethyl)amino]ethyl]-N'-[3-(4-trifluoromethylphenyl)amino]ethyl]-N'-[3-(4-trifluoromethylphenyl)amino]ethyl]urea (CA INDEX NAME)

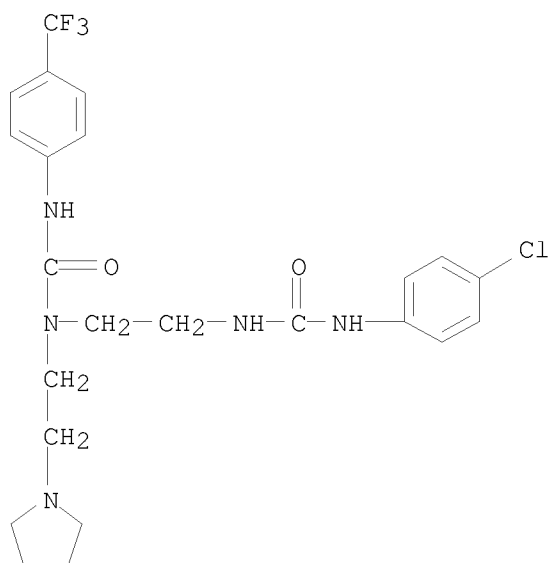
PAGE 1-A



PAGE 2-A

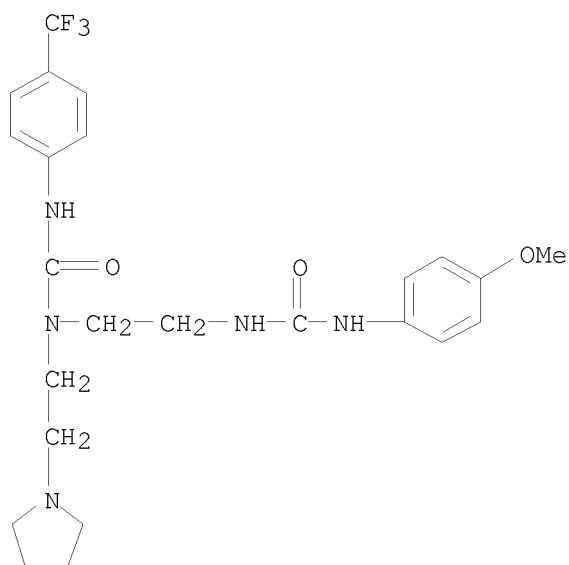


RN 862808-66-0 CAPLUS
CN Urea, N-[2-[[[(4-chlorophenyl)amino]carbonyl]amino]ethyl]-N-[2-(1-pyrrolidinyl)ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



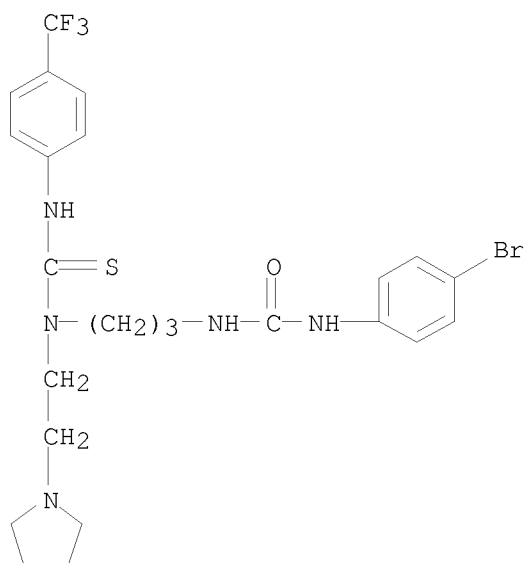
RN 862808-68-2 CAPLUS

CN Urea, N-[2-[[[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N-[2-(1-pyrrolidinyl)ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

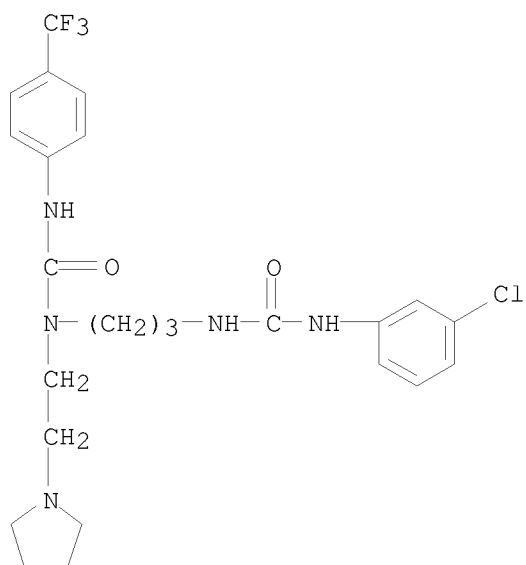


RN 862808-70-6 CAPLUS

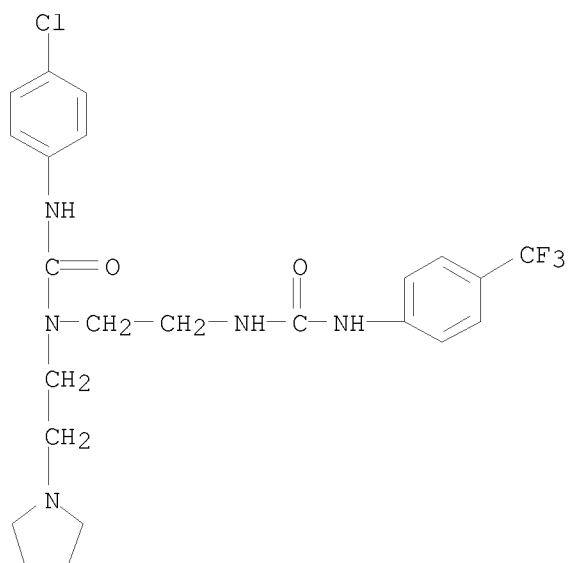
CN Urea, N-(4-bromophenyl)-N'-[3-[[2-(1-pyrrolidinyl)ethyl][thioxo[[4-(trifluoromethyl)phenyl]amino]methyl]amino]propyl]- (CA INDEX NAME)



RN 862808-72-8 CAPLUS
 CN Urea, N-[3-[[[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]propyl]-N-[2-(1-pyrrolidinyl)ethyl]-N'-[4-(bromophenyl)]- (CA INDEX NAME)

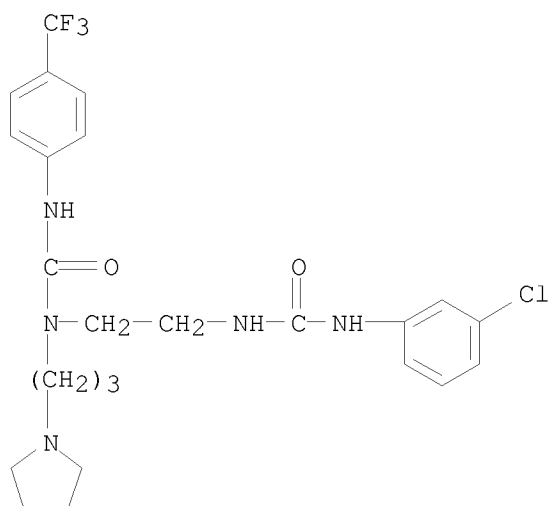


RN 862808-74-0 CAPLUS
 CN Urea, N-[2-[[[4-(chlorophenyl)amino]carbonyl][2-(1-pyrrolidinyl)ethyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



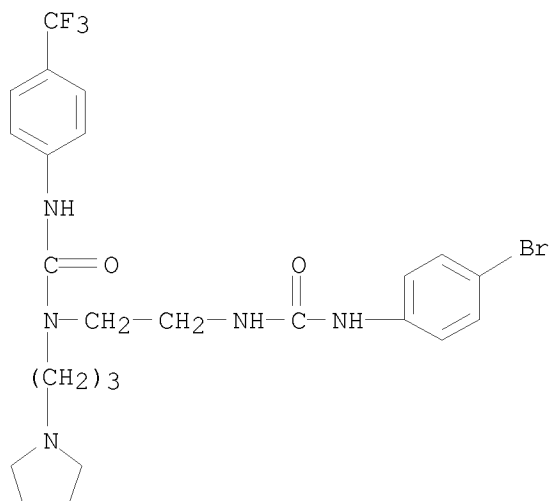
RN 862808-76-2 CAPLUS

CN Urea, N-[2-[[[3-chlorophenyl]amino]carbonyl]amino]ethyl]-N-[3-(1-pyrrolidinyl)propyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



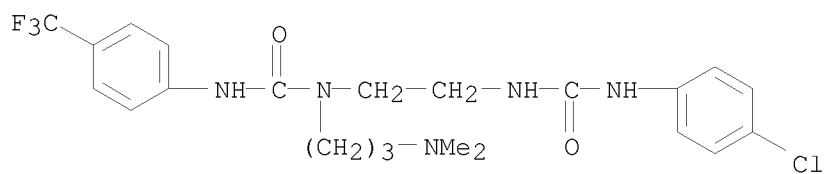
RN 862808-78-4 CAPLUS

CN Urea, N-[2-[[[4-bromophenyl]amino]carbonyl]amino]ethyl]-N-[3-(1-pyrrolidinyl)propyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



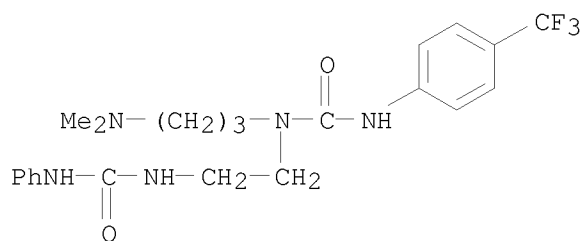
RN 862808-80-8 CAPLUS

CN Urea, N-[2-[[[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N-[3-(dimethylamino)propyl]-N'-[4-(bromophenyl)]- (CA INDEX NAME)



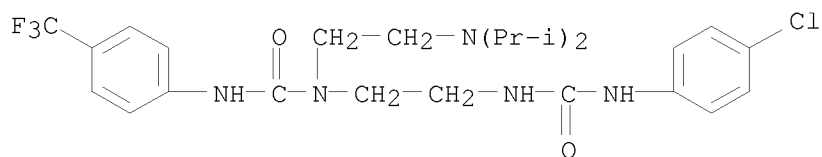
RN 862808-82-0 CAPLUS

CN Urea, N-[3-(dimethylamino)propyl]-N-[2-[[[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N'-[4-(chlorophenyl)]- (CA INDEX NAME)



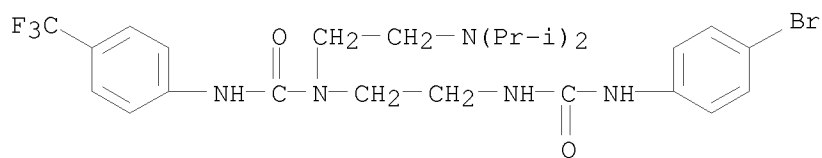
RN 862808-84-2 CAPLUS

CN Urea, N-[2-[[[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N-[2-[[[4-(chlorophenyl)amino]carbonyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]]- (CA INDEX NAME)



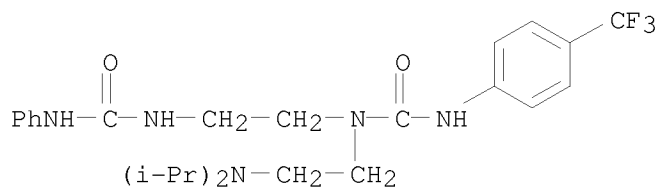
RN 862808-86-4 CAPLUS

CN Urea, N-[2-[bis(1-methylethyl)amino]ethyl]-N-[2-[[[4-bromophenyl]amino]carbonyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 862808-88-6 CAPLUS

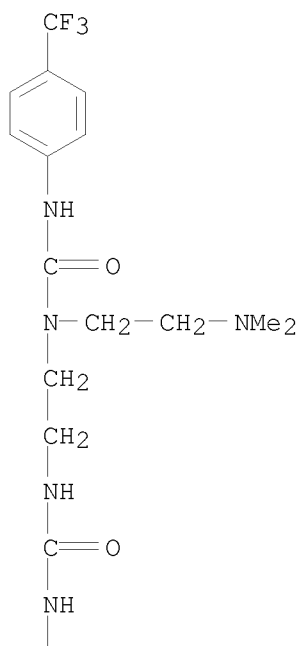
CN Urea, N-[2-[bis(1-methylethyl)amino]ethyl]-N-[2-[[[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



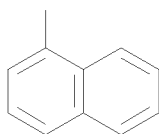
RN 862808-90-0 CAPLUS

CN Urea, N-[2-(dimethylamino)ethyl]-N-[2-[[[1-naphthalenyl]amino]carbonyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

PAGE 1-A

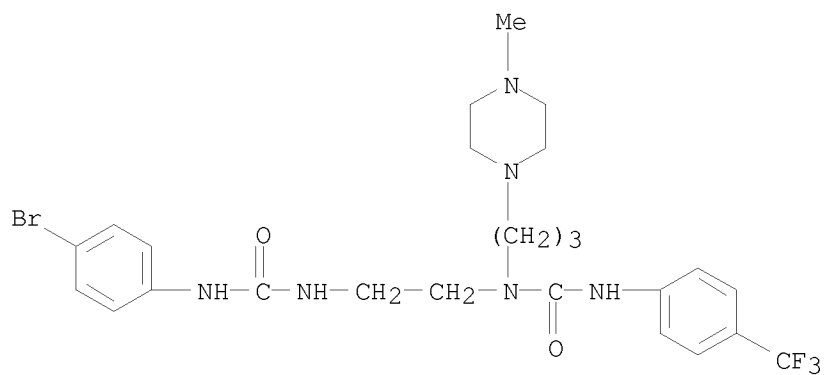


PAGE 2-A



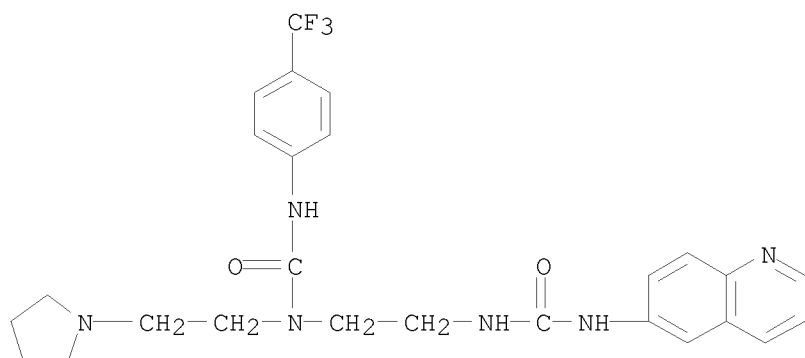
RN 862808-92-2 CAPLUS

CN Urea, N-[2-[[[4-(bromophenyl)amino]carbonyl]amino]ethyl]-N-[3-(4-methyl-1-piperazinyl)propyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



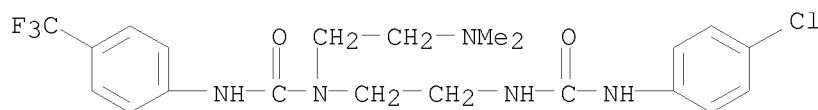
RN 862808-94-4 CAPLUS

CN Urea, N-[2-(1-pyrrolidiny)ethyl]-N-[2-[[[6-quinolinylamino)carbonyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



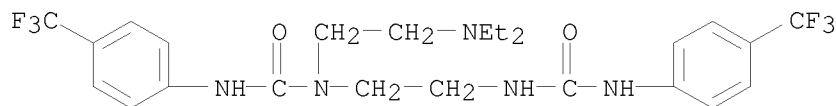
RN 862809-05-0 CAPLUS

CN Urea, N-[2-[[[4-chlorophenyl)amino]carbonyl]amino]ethyl]-N-[2-(dimethylamino)ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 862809-09-4 CAPLUS

CN Urea, N-[2-[[2-(diethylamino)ethyl]][[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN

AN 2002:865481 CAPLUS

DN 139:303935

TI High-resolution reversed-phase high-performance liquid chromatography analysis of polyamines and their monoacetyl conjugates by fluorescence detection after derivatization with N-hydroxysuccinimidyl 6-quinolinyl carbamate. [Erratum to document cited in CA127:78027]

AU Weiss, Thomas; Bernhardt, Gunther; Buschauer, Armin; Jauch, Karl-Walter; Zirngibl, Hubert

CS Dep. Surgery, Univ. Regensburg, Regensburg, D-93042, Germany

SO Analytical Biochemistry (2002), 311(1), 100

CODEN: ANBCA2; ISSN: 0003-2697

PB Elsevier Science

DT Journal

LA English

AB In Figures 3, 5, and 7, the compound nos. for spermine 11 and the internal standard (IS) 1,7-diaminoheptane 12 were erroneously exchanged. In Table 3, the internal standard (IS) 1,7-diaminoheptane was designated compound 13

instead

of 12.

IT 191729-96-1P 191729-97-2P 191729-98-3P

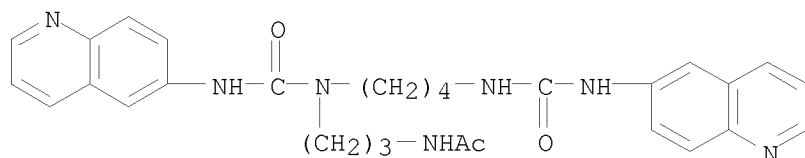
191729-99-4P 191730-00-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(high-resolution reversed-phase HPLC anal. of polyamines and their monoacetyl conjugates by fluorescence detection after derivatization with N-hydroxysuccinimidyl 6-quinolinyl carbamate (Erratum))

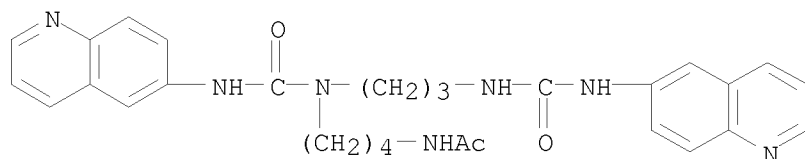
RN 191729-96-1 CAPLUS

CN Acetamide, N-[3-[[[(6-quinolinylamino)carbonyl][4-[[[(6-quinolinylamino)carbonyl]amino]butyl]amino]propyl]- (CA INDEX NAME)



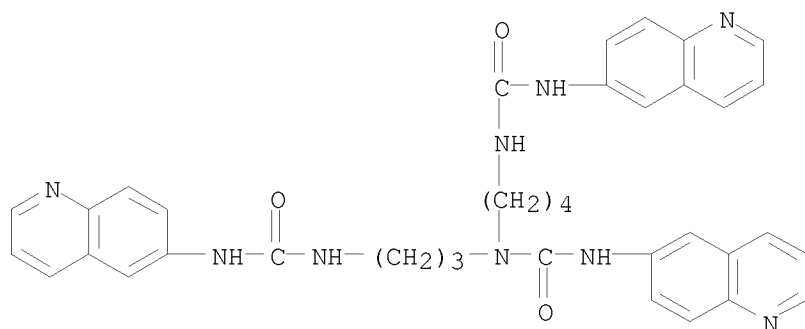
RN 191729-97-2 CAPLUS

CN Acetamide, N-[4-[[[(6-quinolinylamino)carbonyl][3-[[[(6-quinolinylamino)carbonyl]amino]propyl]amino]butyl]- (CA INDEX NAME)

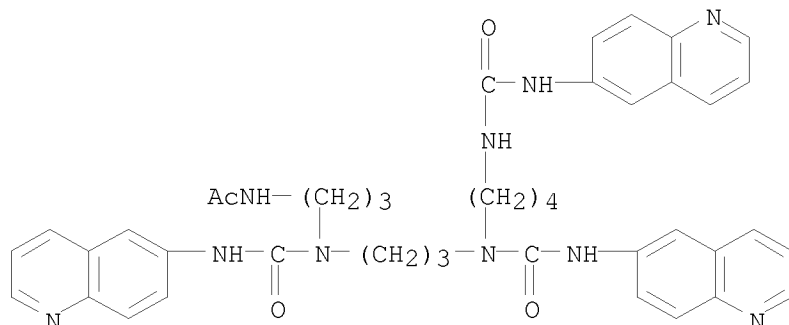


RN 191729-98-3 CAPLUS

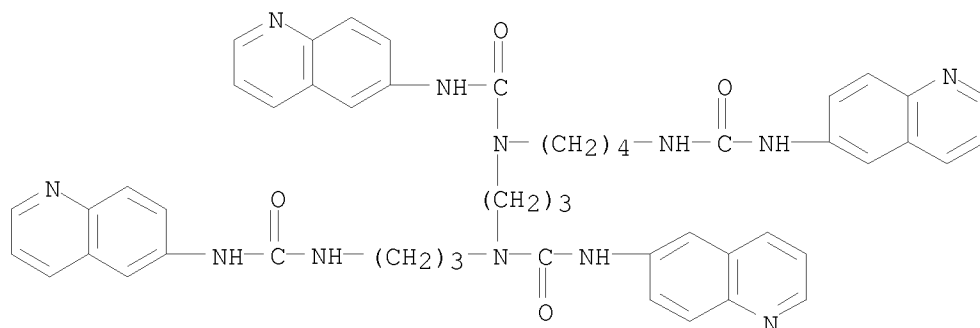
CN Urea, N'-6-quinolinyl-N-[4-[[[(6-quinolinylamino)carbonyl]amino]butyl]-N-[3-[[[(6-quinolinylamino)carbonyl]amino]propyl]- (CA INDEX NAME)



RN 191729-99-4 CAPLUS
 CN 2,7,11,15-Tetraazaheptadecanamide,
 16-oxo-N-6-quinolinyl-7,11-bis[(6-quinolinylamino)carbonyl]- (CA INDEX
 NAME)



RN 191730-00-4 CAPLUS
 CN 2,6,10,15-Tetraazahexadecanediamide,
 N1,N16-di-6-quinolinyl-6,10-bis[(6-quinolinylamino)carbonyl]- (CA INDEX
 NAME)



L4 ANSWER 7 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1997:342994 CAPLUS
 DN 127:78027
 OREF 127:14857a
 TI High-resolution reversed-phase high-performance liquid chromatography
 analysis of polyamines and their monoacetyl conjugates by fluorescence
 detection after derivatization with N-hydroxysuccinimidyl 6-quinolinyl
 carbamate
 AU Weiss, Thomas; Bernhardt, Gunther; Buschauer, Armin; Jauch, Karl-Walter;
 Zirngibl, Hubert
 CS Dep. Surgery, Univ. Regensburg, Regensburg, D-93042, Germany
 SO Analytical Biochemistry (1997), 247(2), 294-304
 CODEN: ANBCA2; ISSN: 0003-2697
 PB Academic
 DT Journal
 LA English
 AB A highly sensitive, accurate, and reproducible HPLC method for the
 determination

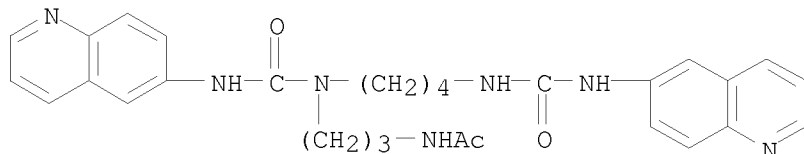
of all natural polyamines and their monoacetyl conjugates is described. The presented method is based on precolumn derivatization with N-hydroxysuccinimidyl 6-quinolinyl carbamate (HSQC) followed by C18-HPLC separation using a ternary gradient and fluorescence detection ($\lambda_{\text{Ex}}=248$ nm, $\lambda_{\text{Em}} = 398$ nm). The derivs. of the four main polyamines (putrescine, cadaverine, spermidine, and spermine) and the internal standard were synthesized on a preparative scale and characterized, especially with respect to their molar absorptivities and fluorescence quantum yields. The limits of detection of the highly stable derivs. ranged from 30 to 130 fmol (injection volume 10 μ l) for putrescine and N-acetylcadaverine, resp. (signal to noise ratio = 10), with excellent linearity within the range from 1 to 100 μ M. High reproducibility for both retention times and peak areas, with coeffs. of variation ranging from 0.14 to 0.88% and from 1.83 to 3.80%, resp., were achieved. Provided that deproteinization of the samples was carried out immediately, recoveries of the analytes from homogenates of pancreatic cancer xeno-grafts were high and reproducible. The optimized method was applied to the determination of the polyamine content of cultured pancreatic cancer cells and of tissue from colorectal adenocarcinoma, proving precise and reproducible quantification in these complex biol. matrixes.

IT 191729-96-1P 191729-97-2P 191729-98-3P
191729-99-4P 191730-00-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(high-resolution reversed-phase HPLC anal. of polyamines and their monoacetyl conjugates by fluorescence detection after derivatization with N-hydroxysuccinimidyl 6-quinolinyl carbamate)

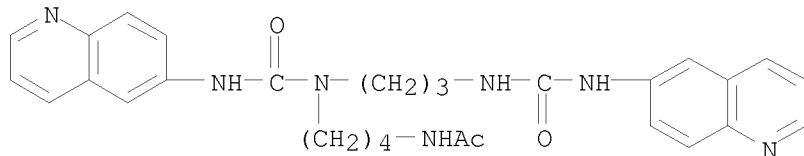
RN 191729-96-1 CAPLUS

CN Acetamide, N-[3-[[[(6-quinolinylamino)carbonyl][4-[[[(6-quinolinylamino)carbonyl]amino]butyl]amino]propyl]- (CA INDEX NAME)



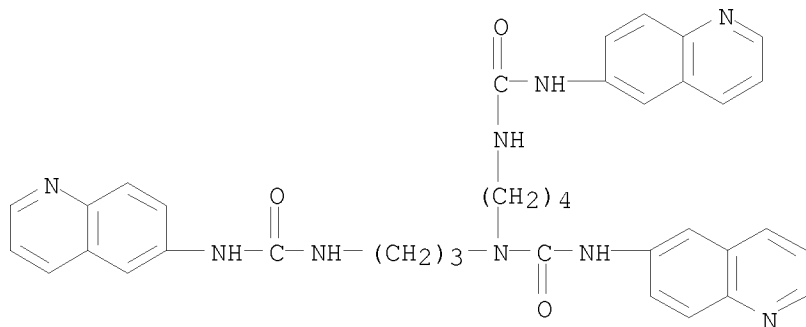
RN 191729-97-2 CAPLUS

CN Acetamide, N-[4-[[[(6-quinolinylamino)carbonyl][3-[[[(6-quinolinylamino)carbonyl]amino]propyl]amino]butyl]- (CA INDEX NAME)

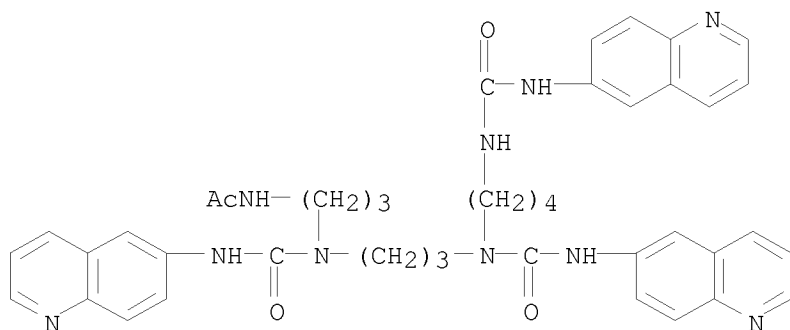


RN 191729-98-3 CAPLUS

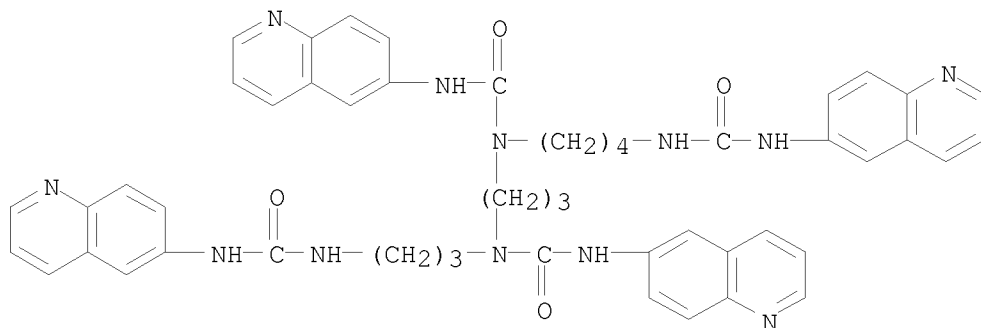
CN Urea, N'-6-quinolinyl-N-[4-[[[(6-quinolinylamino)carbonyl]amino]butyl]-N-[3-[[[(6-quinolinylamino)carbonyl]amino]propyl]- (CA INDEX NAME)



RN 191729-99-4 CAPLUS
 CN 2,7,11,15-Tetraazaheptadecanamide,
 16-oxo-N-6-quinolinyl-7,11-bis[(6-quinolinylamino)carbonyl]- (CA INDEX
 NAME)



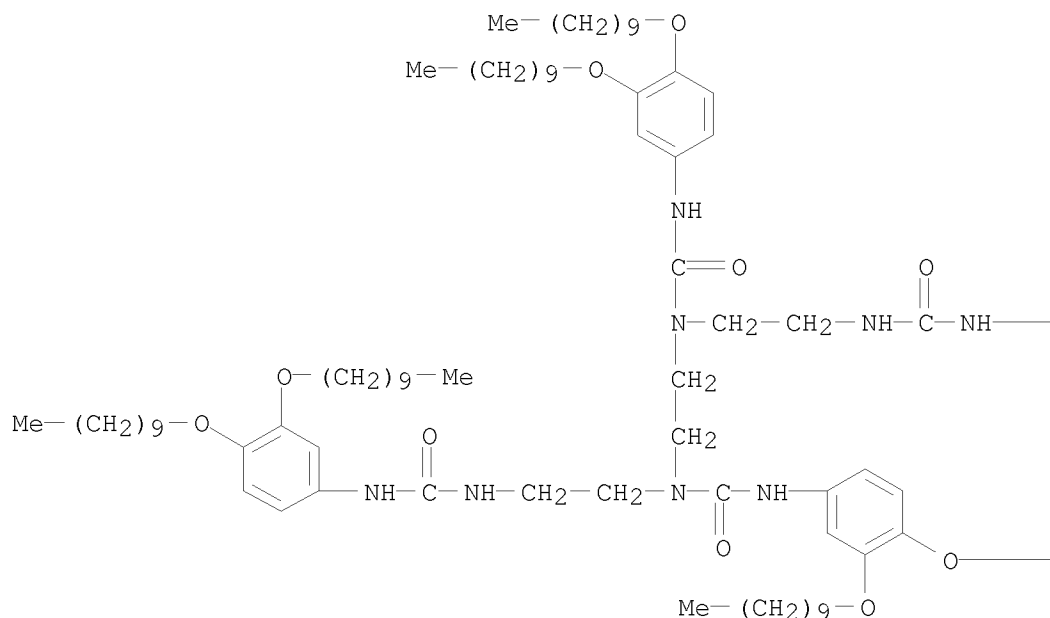
RN 191730-00-4 CAPLUS
 CN 2,6,10,15-Tetraazahexadecanediamide,
 N1,N16-di-6-quinolinyl-6,10-bis[(6-quinolinylamino)carbonyl]- (CA INDEX
 NAME)

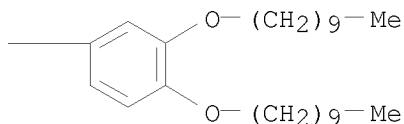


OSC.G 33 THERE ARE 33 CAPLUS RECORDS THAT CITE THIS RECORD (33 CITINGS)
 RE.CNT 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1997:268152 CAPLUS
 DN 127:11327
 OREF 127:2213a,2216a
 TI Liquid crystalline derivatives of oligoethylene-amines and -amino ethers with amide, ester, urea or urethane functions
 AU Stebani, Uwe; Lattermann, Gunter; Wittenberg, Michael; Wendorff, Joachim Heinz
 CS Makromolekulare Chemie I, Universitat Bayreuth, Bayreuth, D-95440, Germany
 SO Journal of Materials Chemistry (1997), 7(4), 607-614
 CODEN: JMACEP; ISSN: 0959-9428
 PB Royal Society of Chemistry
 DT Journal
 LA English
 AB The mesomorphism of diethylenetriamine and triethylenetetramine derivs., substituted with the 3,4-bis(decyloxy)benzoyl group ('two chain' substituent) via amide, ester, urea or urethane moieties, is described. Also, different examples of related linear and cyclic oligoethyleneamino ethers were studied and compared with the mesomorphism of the 1st group. Both lamellar smectic A and hexagonal columnar mesophases can be observed in linear compds., depending on the length of the linear unit. A cyclic derivative displays a cubic phase. The conclusion is emphasized that the mesomorphism of these classes of compds. is caused by microphase separation
 IT 190275-30-0P
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
 (preparation and liquid crystal properties of)
 RN 190275-30-0 CAPLUS
 CN 2,5,8,11-Tetraazadodecanediamide, N1,N12-bis[3,4-bis(decyloxy)phenyl]-5,8-bis[[[3,4-bis(decyloxy)phenyl]amino]carbonyl]- (CA INDEX NAME)

PAGE 1-A





— (CH₂)₉—Me

OSC.G 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS RECORD (18 CITINGS)
 RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1993:131352 CAPLUS

DN 118:131352

OREF 118:22591a,22594a

TI Antifoaming agent for foam control of waters containing proteins and its use

IN Rasp, Christian

PA Bayer A.-G., Germany

SO Ger. Offen., 8 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4104869	A1	19920820	DE 1991-4104869	19910217
				DE 1991-4104869	19910217
AB	Foaming in wastewaters, e.g., from slaughterhouses, containing 50 ppm to 0.5 weight% proteins, is prevented using a modified polyether (I), where R is II. A suitable agent is I where R ₁ = R ₂ = R ₄ = H, R ₃ = Me, R ₅ = n-Bu, p = q = 0, x = 21, y = 16, R ₆ = 2,4-toluylene, and R ₇ = C ₂ H ₄ .				
IT	146349-56-6				
	RL: PROC (Process)				
	(antifoaming agent, for slaughterhouse wastewaters)				
RN	146349-56-6 CAPLUS				
CN	Oxirane, methyl-, polymer with oxirane, ester with [3-[[[2-[[[5-[(carboxyamino)carbonyl]amino]-2-methylphenyl]amino]carbonyl][2-[[[3-(carboxyamino)-4-methylphenyl]amino]carbonyl]amino]ethyl]amino]ethyl]amino]carbonyl]amino]-				

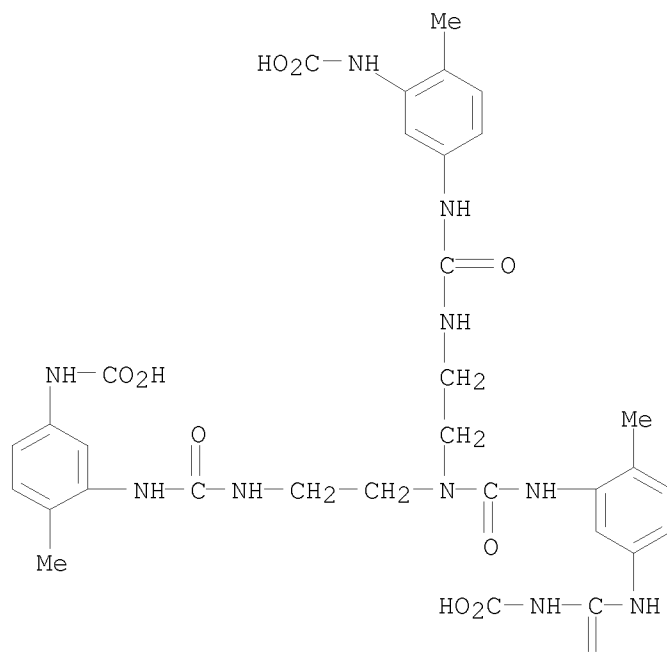
4-methylphenyl]carbamic acid (3:1), tributyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 177570-62-6

CMF C32 H38 N10 O10

PAGE 1-A



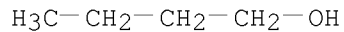
PAGE 2-A



CM 2

CRN 71-36-3

CMF C4 H10 O



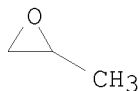
CM 3

CRN 9003-11-6

CMF (C3 H6 O . C2 H4 O) x

CCI PMS

CM 4
CRN 75-56-9
CMF C3 H6 O



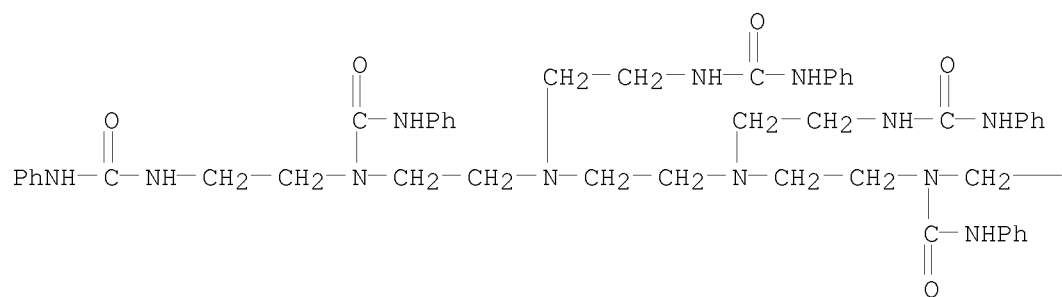
CM 5
CRN 75-21-8
CMF C2 H4 O



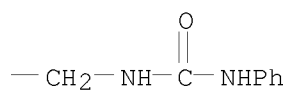
L4 ANSWER 10 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1993:101613 CAPLUS
DN 118:101613
OREF 118:17781a,17784a
TI Non-classical urea oligomers. Part XIV. Some new properties of
copper(II) ion encircled by bis-branched oligomeric urea ligand:
properties associated with catalysis for oxidative coupling of phenols
AU Araki, Takeo; Tanaka, N.; Hinokimori, T.; Hotta, K.; Tateishi, K.; Kubo,
Y.; Yamaguchi, T.; Watanabe, K.; Fukuda, H.; Asa, H.
CS Dep. Polym. Sci. Eng., Kyoto Inst. Technol., Kyoto, 606, Japan
SO Journal of Molecular Catalysis (1992), 75(1), 21-40
CODEN: JMCADS; ISSN: 0304-5102
DT Journal
LA English
AB Bis-branched urea oligomers (B-urea) mainly composed of
hexakis(N-acrylcarbamoyl)-[N3,N4-bis(ethylamino)]pentaethylenehexamine
were obtained by the reaction of triethylenetetramine with
1,2-dibromoethane followed by treatment with PhNCO. Under neutral
conditions the B-urea readily forms stable mononuclear Cu(II) complexes,
e.g. I, in which a Cu(II) ion is almost fully surrounded by the B-urea
ligand, as confirmed by magnetic susceptibility measurements. In the
presence of oxygen, this Cu(II) complex (B-urea-Cu(II)) effectively
catalyzes oxidative coupling of various substituted phenols, e.g.
2,6-di-tert-butyl-, 2,6-dimethyl-, and 2,6-di-tert-butyl-4-methylphenols.
At the same time the Cu(II) ion is reduced to form the corresponding
yellow B-urea-Cu(I) complex quant. The Cu(I) state is highly stable for
storage in the solid state but can readily be reacted with oxygen in a
reversible manner in solution
IT 144964-19-2 144976-66-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(complexation of, with copper(II))
RN 144964-19-2 CAPLUS
CN 2,5,8,11,14,17-Hexaazaooctadecanediamide,
N1,N18-diphenyl-5,14-bis[(phenylamino)carbonyl]-8,11-bis[2-

[[(phenylamino) carbonyl] amino] ethyl]- (CA INDEX NAME)

PAGE 1-A



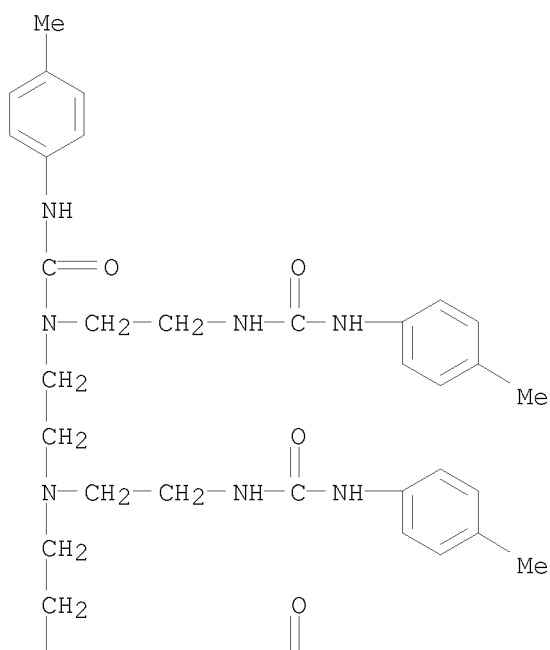
PAGE 1-B

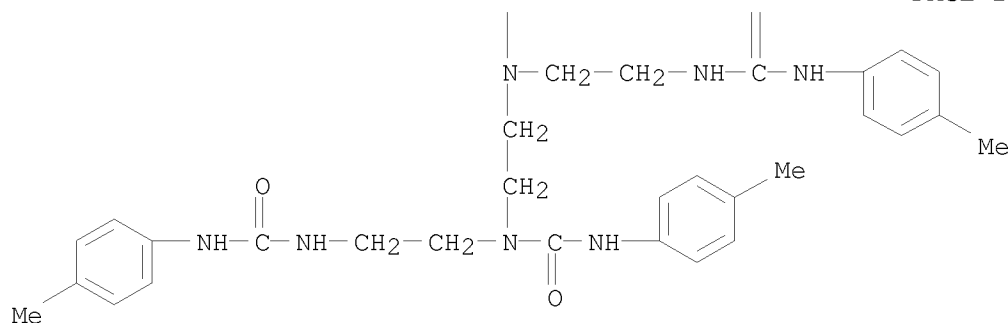


RN 144976-66-9 CAPLUS

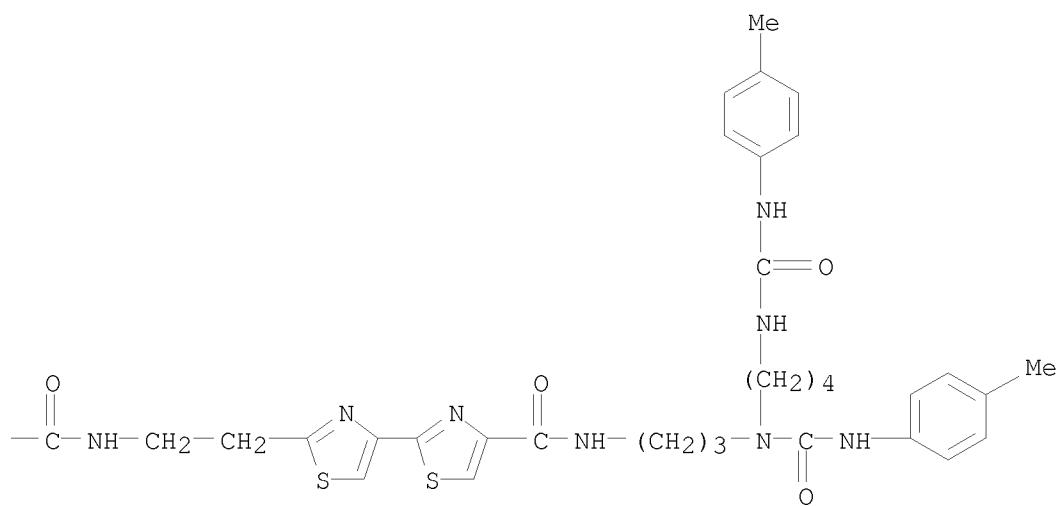
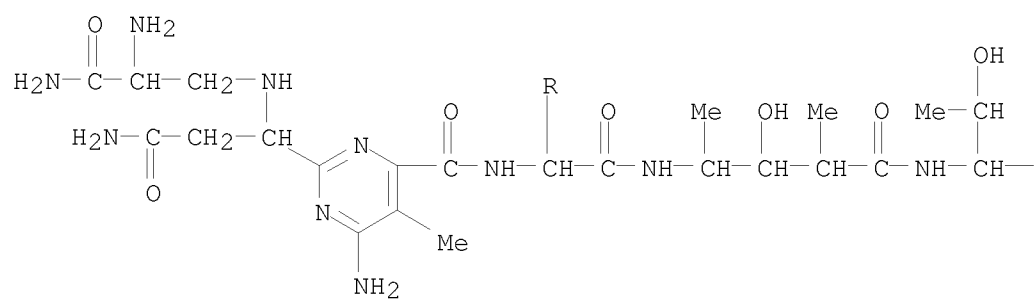
CN 2,5,8,11,14,17-Hexaazaoctadecanediarnide,
N1,N18-bis(4-methylphenyl)-5,14-bis[[(4-methylphenyl) amino] carbonyl]-8,11-
bis[2-[[[(4-methylphenyl) amino] carbonyl] amino] ethyl]- (CA INDEX NAME)

PAGE 1-A

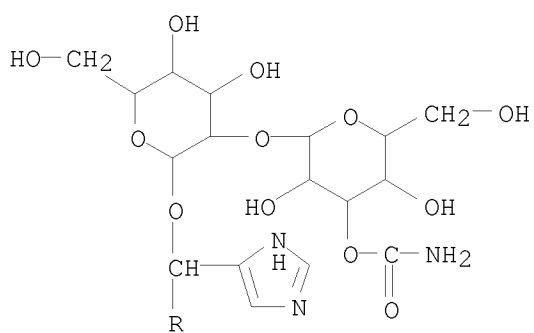




L4 ANSWER 11 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1993:39373 CAPLUS
 DN 118:39373
 OREF 118:7195a,7198a
 TI Chemical modification of the antitumor antibiotic bleomycetin by C-end fragment
 AU Andronnikova, G. P.; Lomakina, N. N.; Anisimova, T. M.; Usol'seva, S. V.; Zenkova, V. A.; Anoshina, G. M.; Bychkova, O. P.; Gold'berg, L. E.; Stepanova, E. S.
 CS Urals Polytech. Inst., Ekaterinburg, Russia
 SO Antibiotiki i Khimioterapiya (1992), 37(8), 24-7
 CODEN: ANKHEW; ISSN: 0235-2990
 DT Journal
 LA Russian
 AB Bleomycetin I [R = NH(CH₂)₃NH(CH₂)₄NH₂], an antitumor antibiotic, was modified at the 3-[(4-aminobutyl)amino]propylamine (spermidine) fragment by acylation, carbamoylation, and reductive alkylation to give new semisynthetic derivs. Modifications involved the primary and secondary amino groups and gave N,N'-diacyl, N,N'-dicarbamoyl, and N,N'-dialkyl bleomycetins with lowered antibiotic toxicities.
 IT 144764-23-8P 144764-25-0P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation and cytotoxicity of)
 RN 144764-23-8 CAPLUS
 CN Bleomycinamide, N1-[3-[[[(4-methylphenyl)amino]carbonyl][4-[[[(4-methylphenyl)amino]carbonyl]amino]butyl]amino]propyl]- (9CI) (CA INDEX NAME)

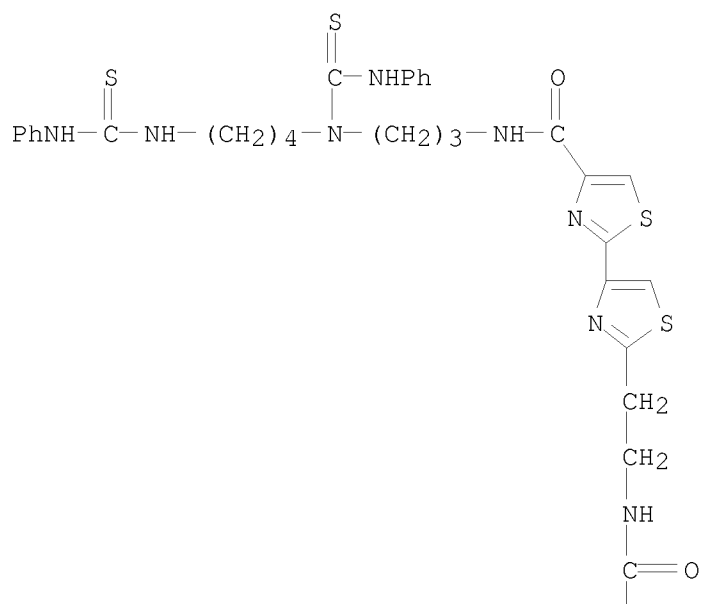


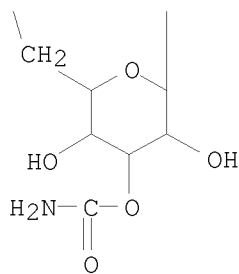
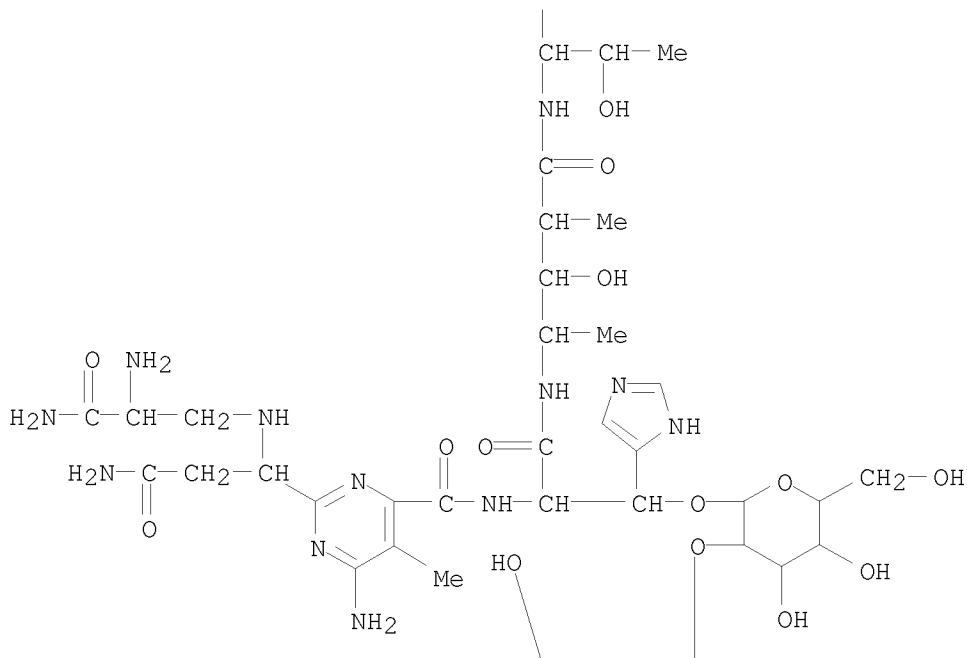
PAGE 2-A



RN 144764-25-0 CAPLUS
 CN Bleomycinamide, N1-[3-[[(phenylamino)thioxomethyl] [4-
 [[(phenylamino)thioxomethyl]amino]butyl]amino]propyl]- (9CI) (CA INDEX
 NAME)

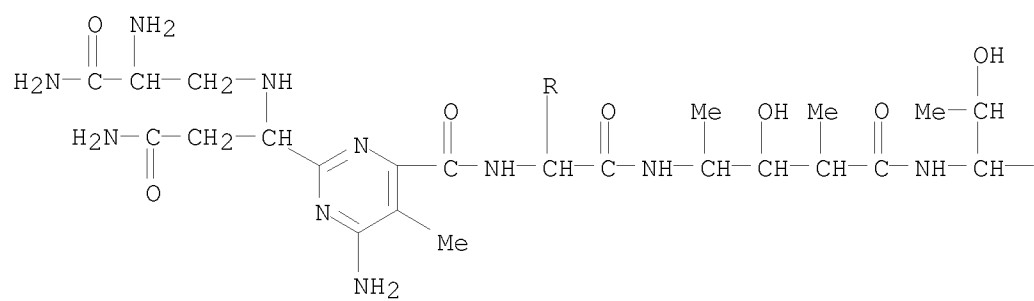
PAGE 1-A



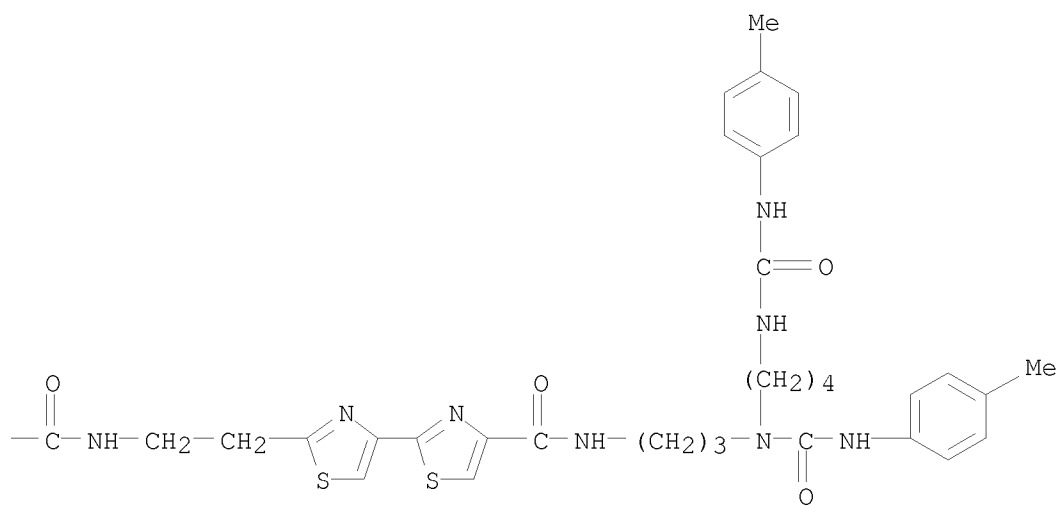


IT 144764-23-8DP, copper complex 144764-25-0DP, copper complex
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and decomplexation of)
 RN 144764-23-8 CAPLUS
 CN Bleomycinamide, N1-[3-[[[(4-methylphenyl)amino]carbonyl][4-[[[(4-methylphenyl)amino]carbonyl]amino]butyl]amino]propyl]- (9CI) (CA INDEX NAME)

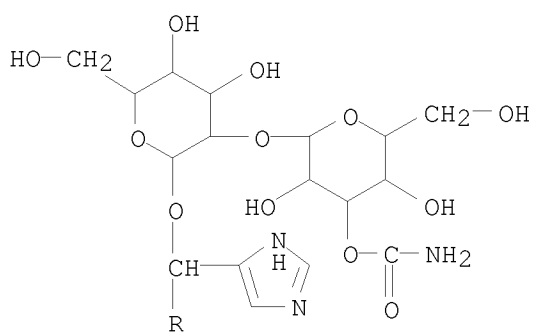
PAGE 1-A



PAGE 1-B

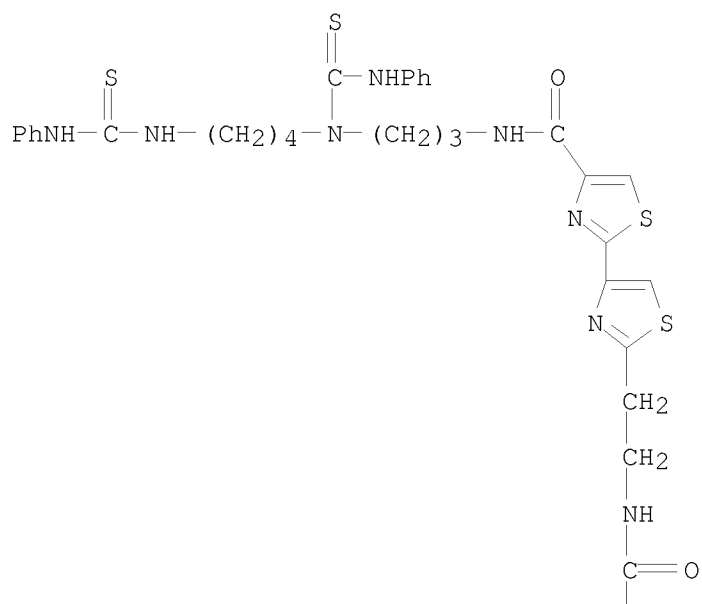


PAGE 2-A



RN 144764-25-0 CAPLUS
 CN Bleomycinamide, N1-[3-[[(phenylamino)thioxomethyl] [4-
 [[(phenylamino)thioxomethyl]amino]butyl]amino]propyl]- (9CI) (CA INDEX
 NAME)

PAGE 1-A



Page 58

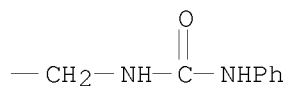
IT 126912-10-5DP, copper complex
RL: PRP (Properties); PREP (Preparation)
(formation and electronic spectrum of)

CN 2,5,8,11,14,17-Hexaazaoctadecane-5,8,14-tricarboxamide,
1,18-dioxo-N5,N8,N14-triphenyl-1,18-bis(phenylamino)-11-[2-
[[(phenylamino)carbonyl]amino]ethyl]- (CA INDEX NAME)

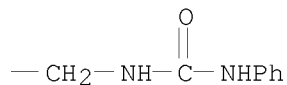
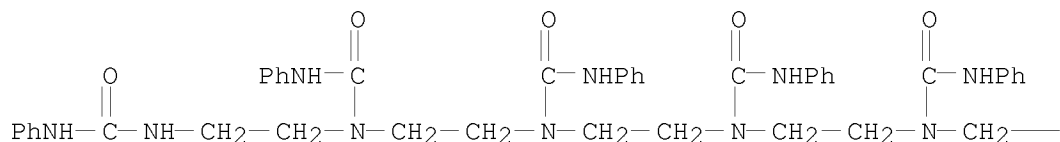
$$\begin{array}{ccccccc} & \text{O} & & \text{O} & & \text{CH}_2\text{-CH}_2\text{-NH-C-NHPh} \\ & || & & || & & | \\ \text{PhNH}-\text{C}-\text{NH}-\text{CH}_2-\text{CH}_2-\text{N}-\text{CH}_2-\text{CH}_2-\text{N}-\text{CH}_2-\text{CH}_2-\text{N}-\text{CH}_2- & & & & & \text{C-NHPh} \\ & & & & & || \\ & & & & & \text{O} \end{array}$$
$$-\text{CH}_2-\text{NH}-\overset{\text{O}}{\parallel}\text{C}-\text{NHPh}$$

CN 2,5,8,11,14,17-Hexaazaoctadecane-5,8,14-tricarboxamide,
1,18-dioxo-N5,N8,N14-triphenyl-1,18-bis(phenylamino)-11-[2-
[[(phenylamino)carbonyl]amino]ethyl]- (CA INDEX NAME)

$$\begin{array}{ccccccc} & \text{O} & & \text{O} & & & \text{O} \\ & || & & || & & & || \\ \text{PhNH}-\text{C}-\text{NH}-\text{CH}_2-\text{CH}_2-\text{N}-\text{CH}_2-\text{CH}_2-\text{N}-\text{CH}_2-\text{CH}_2-\text{N}-\text{CH}_2-\text{CH}_2-\text{N}-\text{CH}_2- & & & & & & \text{C}-\text{NHPh} \\ & & & & & & || \\ & & & & & & \text{O} \end{array}$$

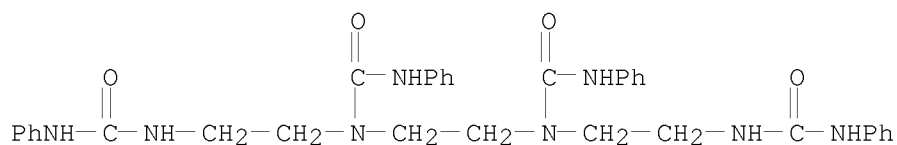


L4 ANSWER 13 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1990:177900 CAPLUS
 DN 112:177900
 OREF 112:30073a,30076a
 TI Paramagnetic line-broadening of nitrogen-hydrogen signals in
 hexakis(N-phenylcarbamoyl)pentaethylenehexamine in the presence of
 copper(II) ions
 AU Araki, Takeo; Kubo, Yasuo; Tsuchie, Shoji
 CS Dep. Polym. Sci. Eng., Kyoto Inst. Technol., Kyoto, 606, Japan
 SO Chemistry Express (1989), 4(11), 705-8
 CODEN: CHEXEU; ISSN: 0911-9566
 DT Journal
 LA English
 AB Paramagnetic 1H-NMR line-broadening of the NH signals in
 hexakis(N-phenylcarbamoyl)pentaethylenehexamine in the presence of Cu(II)
 ions indicates that the Cu ions interact more readily with the outer CO-NH
 groups than with the inner CO-NH groups.
 IT 126093-17-2
 RL: PRP (Properties)
 (NMR spectrum of, effect of copper ions on)
 RN 126093-17-2 CAPLUS
 CN 2,5,8,11,14,17-Hexaazaoctadecane-5,8,11,14-tetracarboxamide,
 1,18-dioxo-N5,N8,N11,N14-tetraphenyl-1,18-bis(phenylamino)- (CA INDEX
 NAME)

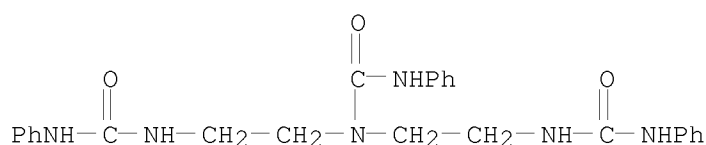


IT 122595-05-5 126552-70-3 126552-71-4
 RL: PRP (Properties)
 (attempted complexation of, with copper ions)

RN 122595-05-5 CAPLUS
 CN 2,5,8,11-Tetraazadodecanediamide, N1,N12-diphenyl-5,8-bis[(phenylamino)carbonyl]- (CA INDEX NAME)

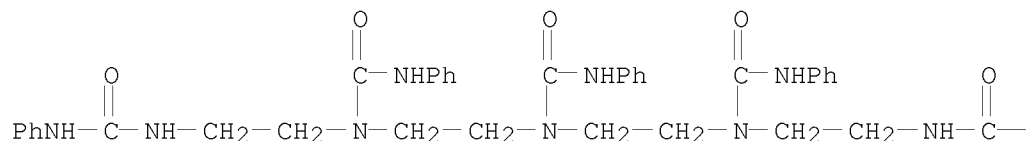


RN 126552-70-3 CAPLUS
 CN Urea, N'-phenyl-N,N-bis[2-[(phenylamino)carbonyl]amino]ethyl]- (CA INDEX NAME)



RN 126552-71-4 CAPLUS
 CN 2,5,8,11,14-Pentaazapentadecanediamide, N1,N15-diphenyl-5,8,11-tris[(phenylamino)carbonyl]- (CA INDEX NAME)

PAGE 1-A

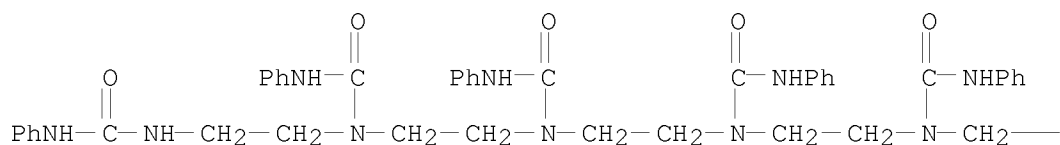


PAGE 1-B

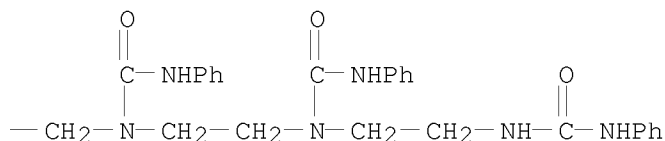
— NHPH

IT 115269-92-6
 RL: PRP (Properties)
 (complexation of, with copper ions)
 RN 115269-92-6 CAPLUS
 CN 2,5,8,11,14,17,20,23-Octaazatetracosane-5,8,11,14,17,20-hexacarboxamide, 1,24-dioxo-N5,N8,N11,N14,N17,N20-hexaphenyl-1,24-bis(phenylamino)- (CA INDEX NAME)

PAGE 1-A

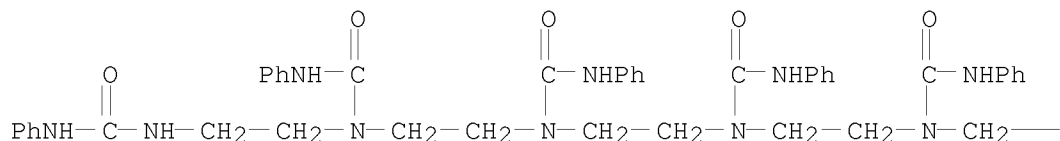


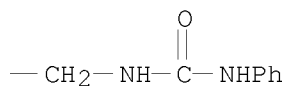
PAGE 1-B



L4 ANSWER 14 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1990:157650 CAPLUS
 DN 112:157650
 OREF 112:26643a,26646a
 TI Nonclassical urea oligomers. XI. Presence of intramolecular hydrogen bonds in hexakis(N-phenylcarbamoyl)pentaethylenehexamine
 AU Araki, Takeo; Kubo, Yasuo; Yasuda, Yohko
 CS Dep. Polym. Sci. Eng., Kyoto Inst. Technol., Kyoto, 606, Japan
 SO Chemistry Express (1989), 4(9), 605-8
 CODEN: CHEXEU; ISSN: 0911-9566
 DT Journal
 LA English
 AB The title compound (I) was treated with CF₃CH₂OH and the concentration-dependent downfield shifts of the NH signals in the NMR spectrum were observed. The inner NH groups are bonded by intramol. H bonds and the outer NH groups contribute to intermol. H bonding; a helical conformation for I is suggested.
 IT 126093-17-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation, NMR, and mol. structure of, hydrogen bonding in relation to)
 RN 126093-17-2 CAPLUS
 CN 2,5,8,11,14,17-Hexaazaoctadecane-5,8,11,14-tetracarboxamide, 1,18-dioxo-N5,N8,N11,N14-tetraphenyl-1,18-bis(phenylamino)- (CA INDEX NAME)

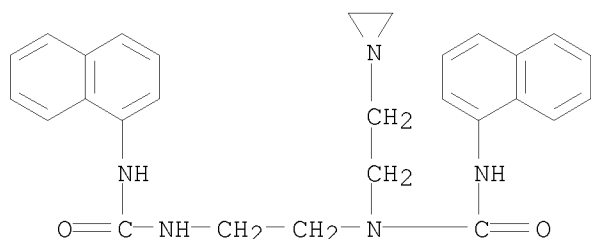
PAGE 1-A





OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

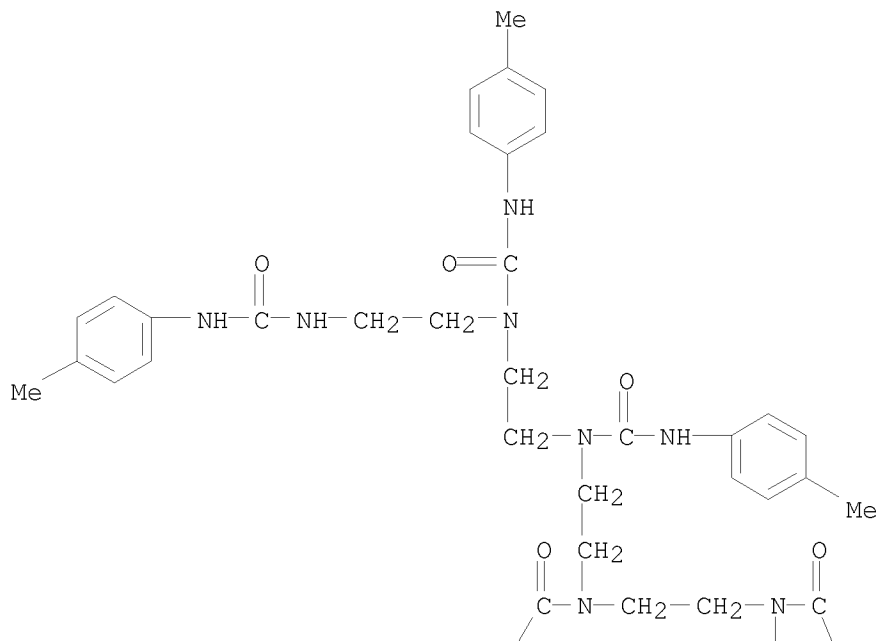
L4 ANSWER 15 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1989:231353 CAPLUS
 DN 110:231353
 OREF 110:38343a,38346a
 TI Oligomers of aziridines and N- β -aziridinoethylamides
 AU Kostyanovskii, R. G.; Leshchinskaya, V. P.; Alekperov, R. K.; Kadorkina, G. K.; Shustova, L. L.; El'natanov, Yu. I.; Gromova, G. L.; Aliev, A. E.; Chervin, I. I.
 CS Int. Khim. Fiz., Moscow, USSR
 SO Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1988), (11), 2566-75
 CODEN: IASKA6; ISSN: 0002-3353
 DT Journal
 LA Russian
 OS CASREACT 110:231353
 AB Aziridine dimers (e.g., N-acyl derivs. I) were prepared by treating aziridine with esters of strong organic acids, e.g., CF₃CO₂Et, EtO₂CCO₂Et, HCO₂Et, MeCOCH₂CO₂Et. New N-acyl and carbamoyl derivs. of aziridine dimer and trimer were prepared. Linear and branched isomers of aziridine tetramer, and a diastereomeric mixture of 2-methylaziridine dimer were isolated. An efficient regiospecific synthesis of 2,2-dimethylaziridine dimer and trimer was developed.
 IT 120626-70-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 120626-70-2 CAPLUS
 CN Urea, N-[2-(1-aziridinyl)ethyl]-N'-1-naphthalenyl-N-[2-[[1-naphthalenylamino)carbonyl]amino]ethyl]- (9CI) (CA INDEX NAME)

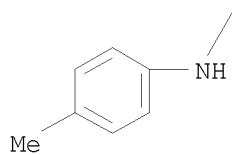


L4 ANSWER 16 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1988:454269 CAPLUS
 DN 109:54269
 OREF 109:9143a,9146a
 TI Site-selective derivatization of oligoethylenimines using five-membered-ring protection method
 AU Araki, Takeo; Kubo, Yasuo; Gohbara, Shinji; Fujimoto, Tatsuya; Notsu,

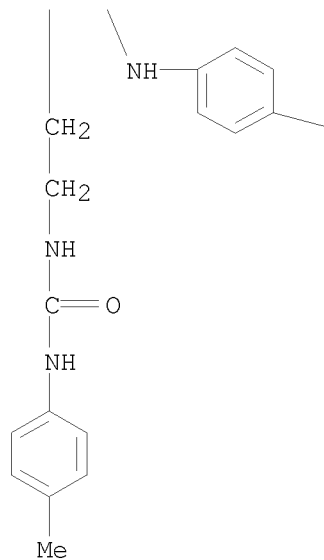
CS Akio; Nakahara, Masaru; Isono, Toshihisa; Masuda, Noriko; Fukumoto, Kazumi
 SO Fac. Sci., Shimane Univ., Matsue, 690, Japan
 SO Macromolecules (1988), 21(7), 1995-2001
 DT CODEN: MAMOBX; ISSN: 0024-9297
 LA Journal
 LA English
 AB Application of modified Ganem's method was effective for derivatization of
 oligoethyleneimines (diethylenetriamine, triethylenetetramine, and
 pentaethylenehexamine) to site-selectively substituted products. The
 method involves protection of amino groups with aldehydes by formation of
 five-membered rings, resulting in the remaining unprotected NH groups
 ready for substitution. Thus, treating H₂N(CH₂)₂NH(CH₂)₂NH₂ with HCHO
 gave (imidazolidylethyl)amine I. The protective five-membered ring was
 readily deprotected to recover the amino groups after the necessary
 substitution reactions were carried out. This protecting method was
 applied to site-selective thiourea derivatizations and synthesis of
 completely linear heptaethyleneoctamine.
 IT 115269-94-8P 115269-95-9P 115269-96-0P
 115269-97-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and gel permeation chromatog. of)
 RN 115269-94-8 CAPLUS
 CN 2,5,8,11,14,17-Hexaazaoctadecane-5,8,11,14-tetracarboxamide,
 N5,N8,N11,N14-tetrakis(4-methylphenyl)-1,18-bis[(4-methylphenyl)amino]-
 1,18-dioxo- (CA INDEX NAME)

PAGE 1-A





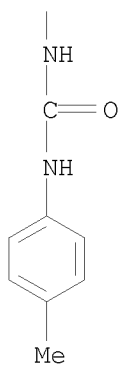
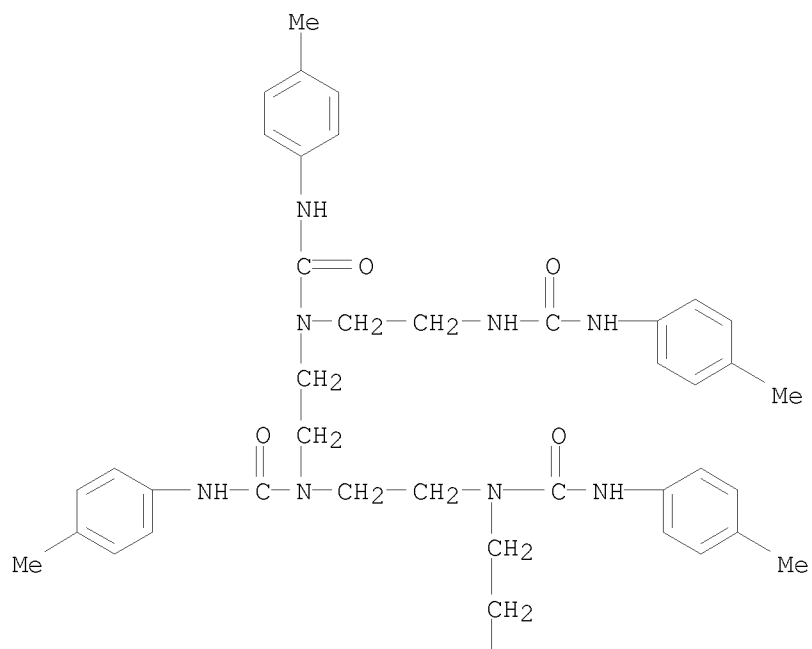
PAGE 2-A



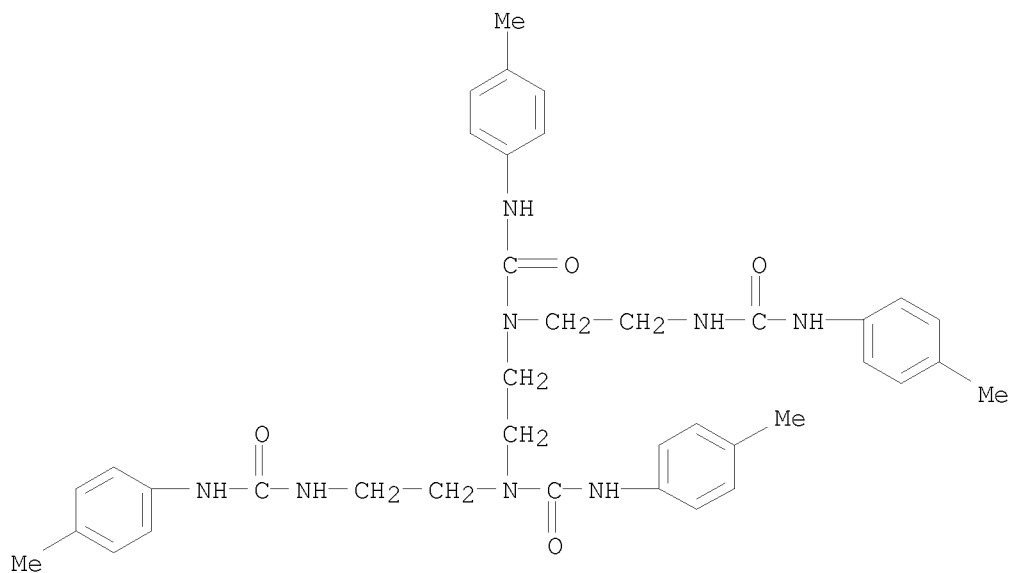
PAGE 2-B

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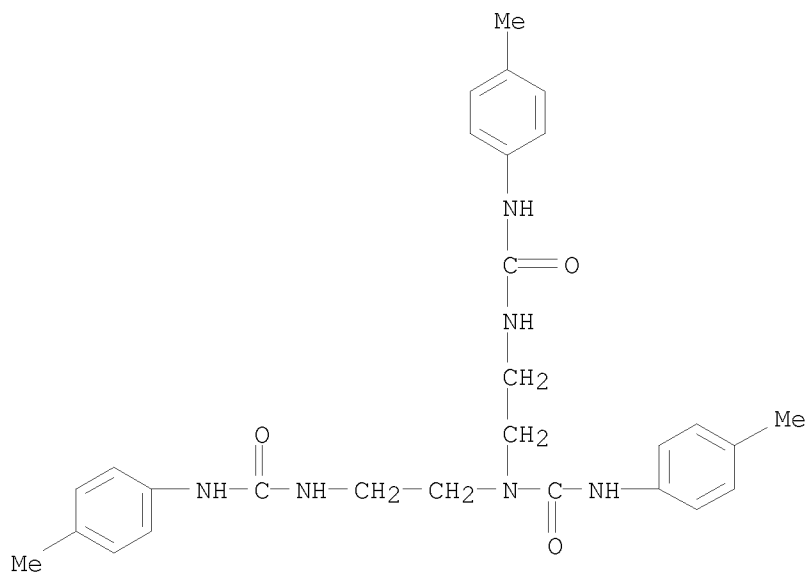
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 CN 2,5,8,11,14-Pentaazapentadecanediamide,
 N1,N15-bis(4-methylphenyl)-5,8,11-tris[[(4-methylphenyl) amino]carbonyl]-
 (CA INDEX NAME)



RN 115269-96-0 CAPLUS
 CN 2,5,8,11-Tetraazadodecanediamide, N1,N12-bis(4-methylphenyl)-5,8-bis[[(4-methylphenyl)amino]carbonyl]- (CA INDEX NAME)

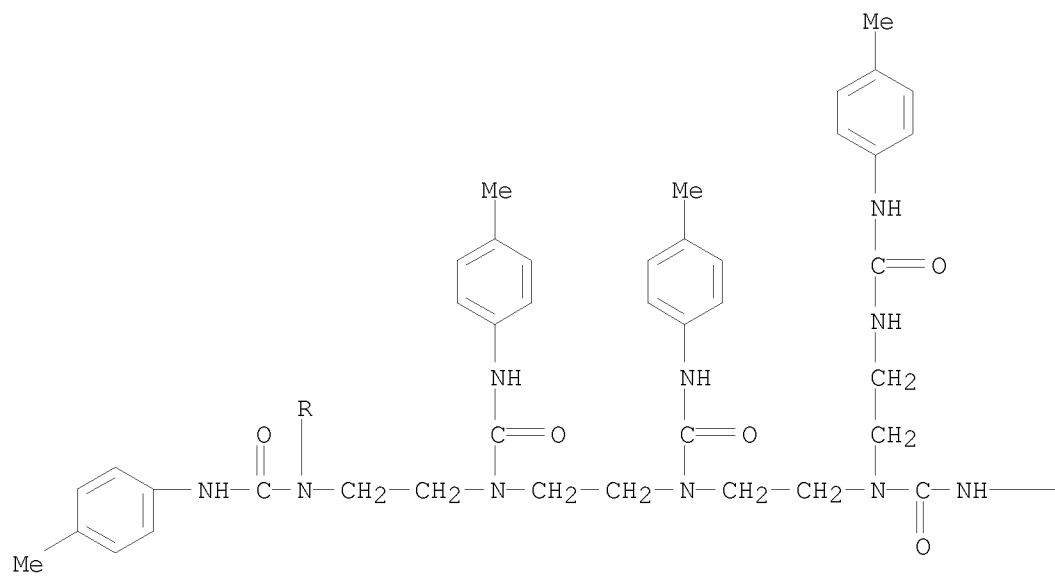


RN 115269-97-1 CAPLUS
 CN Urea, N'-(4-methylphenyl)-N,N-bis[2-[[[4-methylphenyl]amino]carbonyl]amino]ethyl]- (CA INDEX NAME)

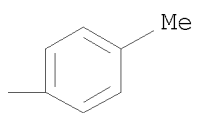


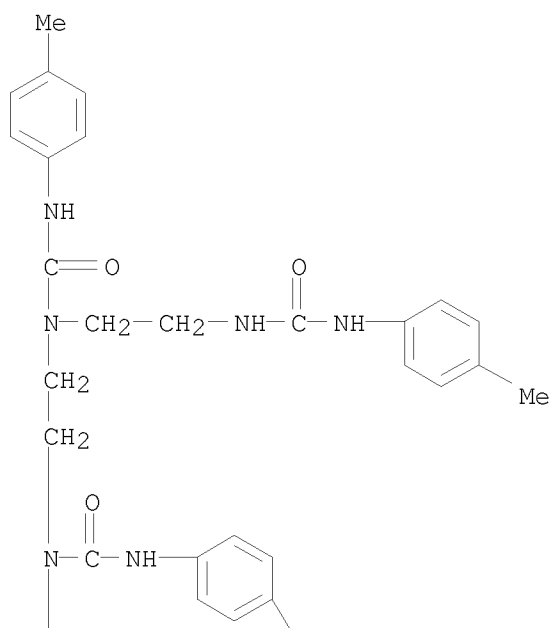
IT 115269-91-5P 115269-92-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 115269-91-5 CAPLUS
 CN 2,5,8,11,14,17,20,23-Octaazatetracosane-5,8,11,14,17,20-hexacarboxamide,
 N5,N8,N11,N14,N17,N20-hexakis(4-methylphenyl)-1,24-bis[(4-
 methylphenyl)amino]-1,24-dioxo- (CA INDEX NAME)

PAGE 1-A

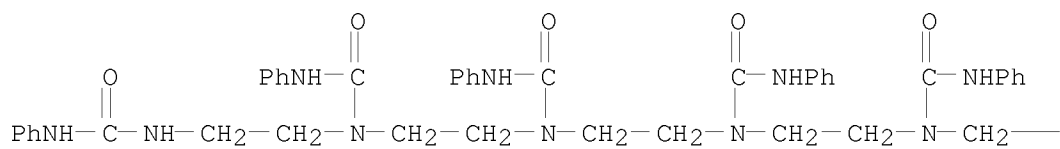


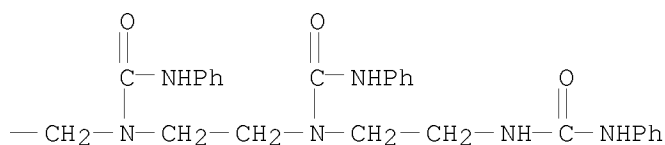
PAGE 1-B



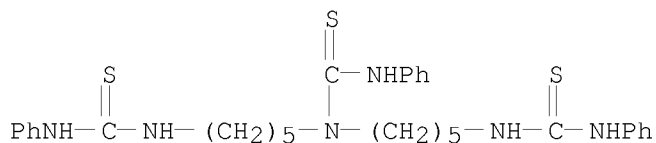


RN 115269-92-6 CAPLUS
 CN 2,5,8,11,14,17,20,23-Octaazatetracosane-5,8,11,14,17,20-hexacarboxamide,
 1,24-dioxo-N5,N8,N11,N14,N17,N20-hexaphenyl-1,24-bis(phenylamino)- (CA
 INDEX NAME)





L4 ANSWER 17 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1987:455796 CAPLUS
 DN 107:55796
 OREF 107:9215a,9218a
 TI Application of carbon-13 NMR spectroscopy to study the biosynthesis of the
 quinolizidine alkaloids lupinine and sparteine
 AU Rana, Jatinder; Robins, David J.
 CS Dep. Chem., Univ. Glasgow, Glasgow, G12 8QQ, UK
 SO Journal of the Chemical Society, Perkin Transactions 1: Organic and
 Bio-Organic Chemistry (1972-1999) (1986), (6), 1133-7
 CODEN: JCPRB4; ISSN: 0300-922X
 DT Journal
 LA English
 AB The labeling patterns in (-)-sparteine and (-)-lupinine derived
 biosynthetically in *Lupinus luteus* from [1-amino-15N,1-13C]cadaverine
 dihydrochloride (I) were established by 13C NMR spectroscopy. Three units
 of I are incorporated to about the same extent into sparteine, and 2
 13C-15N doublets are observed in the 13C{1H} NMR spectrum of sparteine,
 demonstrating that 2 of these cadaverine units are converted into the
 outer rings of sparteine in a specific fashion. Two cadaverine units are
 incorporated into lupinine and 1 13C-15N doublet is observed. These results,
 and 14C-labeling expts. with 1,7,13-triazatridecane, indicate that a later
 C5-N-C5 intermediate with C2v symmetry is not involved in lupinine or
 sparteine biosynthesis.
 IT 109314-18-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 109314-18-3 CAPLUS
 CN Thiourea, N'-phenyl-N,N-bis[5-[(phenylamino)thioxomethyl]amino]pentyl]-
 (CA INDEX NAME)



L4 ANSWER 18 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1986:505837 CAPLUS
 DN 105:105837
 OREF 105:17001a,17004a
 TI Recording media
 IN Haruta, Masahiro; Matsuda, Hiroshi; Munakata, Hirohide; Nishimura, Yukio
 PA Canon K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 60192973	A	19851001	JP 1984-47186	19840314
	US 4818665	A	19890404	US 1987-27050	19870323
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				JP 1984-47184	A 19840314
				JP 1984-47185	A 19840314
				JP 1984-47186	A 19840314
				JP 1984-47187	A 19840314
				JP 1984-47188	A 19840314
				US 1985-710686	A1 19850312
	US 5006446	A	19910409	US 1988-221638	19880720
				JP 1984-47183	A 19840314
				JP 1984-47184	A 19840314
				JP 1984-47185	A 19840314
				JP 1984-47186	A 19840314
				JP 1984-47187	A 19840314
				JP 1984-47188	A 19840314
				US 1985-710686	B1 19850312
				US 1987-27050	A3 19870323

PATENT FAMILY INFORMATION:

FAN 1986:234362

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PI	JP 60192972	A	19851001	JP 1984-47185	19840314
	US 4818665	A	19890404	US 1987-27050	19870323
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				JP 1984-47187	A 19840314
				JP 1984-47188	A 19840314
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FAN 1986:488730

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				JP 1984-47185	A 19840314
				JP 1984-47186	A 19840314
				JP 1984-47187	A 19840314
				JP 1984-47188	A 19840314

	US 5006446	A	19910409	US 1985-710686	A1 19850312
				US 1988-221638	19880720
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				JP 1984-47184	A 19840314
				JP 1984-47185	A 19840314
				JP 1984-47186	A 19840314
				JP 1984-47187	A 19840314
				JP 1984-47188	A 19840314
				US 1985-710686	B1 19850312
				US 1987-27050	A3 19870323
FAN	1986:488731				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 60192685	A	19851001	JP 1984-47184	19840314
	US 4818665	A	19890404	US 1987-27050	19870323
				JP 1984-47183	A 19840314
				JP 1984-47184	A 19840314
				JP 1984-47185	A 19840314
				JP 1984-47186	A 19840314
				JP 1984-47187	A 19840314
				JP 1984-47188	A 19840314
				US 1985-710686	A1 19850312
	US 5006446	A	19910409	US 1988-221638	19880720
				JP 1984-47183	A 19840314
				JP 1984-47184	A 19840314
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				JP 1984-47186	A 19840314
				JP 1984-47187	A 19840314
				JP 1984-47188	A 19840314
				US 1985-710686	B1 19850312
				US 1987-27050	A3 19870323
FAN	1986:488732				
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PI	JP 60192684	A	19851001	JP 1984-47183	19840314
	JP 04027960	B	19920513		
	US 4818665	A	19890404	US 1987-27050	19870323
				JP 1984-47183	A 19840314
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				JP 1984-47185	A 19840314
				JP 1984-47186	A 19840314
				JP 1984-47187	A 19840314
				JP 1984-47188	A 19840314
				US 1985-710686	A1 19850312
	US 5006446	A	19910409	US 1988-221638	19880720
				JP 1984-47183	A 19840314
				JP 1984-47184	A 19840314
				JP 1984-47185	A 19840314
				JP 1984-47186	A 19840314
				JP 1984-47187	A 19840314
				JP 1984-47188	A 19840314
				US 1985-710686	B1 19850312
				US 1987-27050	A3 19870323
FAN	1986:505898				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	US 4818665	A	19890404	US 1987-27050	19870323

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			JP 1984-47185	A	19840314
			JP 1984-47186	A	19840314
			JP 1984-47187	A	19840314
			JP 1984-47188	A	19840314
			US 1985-710686	A1	19850312
US 5006446	A	19910409	US 1988-221638		19880720
			JP 1984-47183	A	19840314
			JP 1984-47184	A	19840314
			JP 1984-47185	A	19840314
			JP 1984-47186	A	19840314
			JP 1984-47187	A	19840314
			JP 1984-47188	A	19840314
			US 1985-710686	B1	19850312
			US 1987-27050	A3	19870323

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

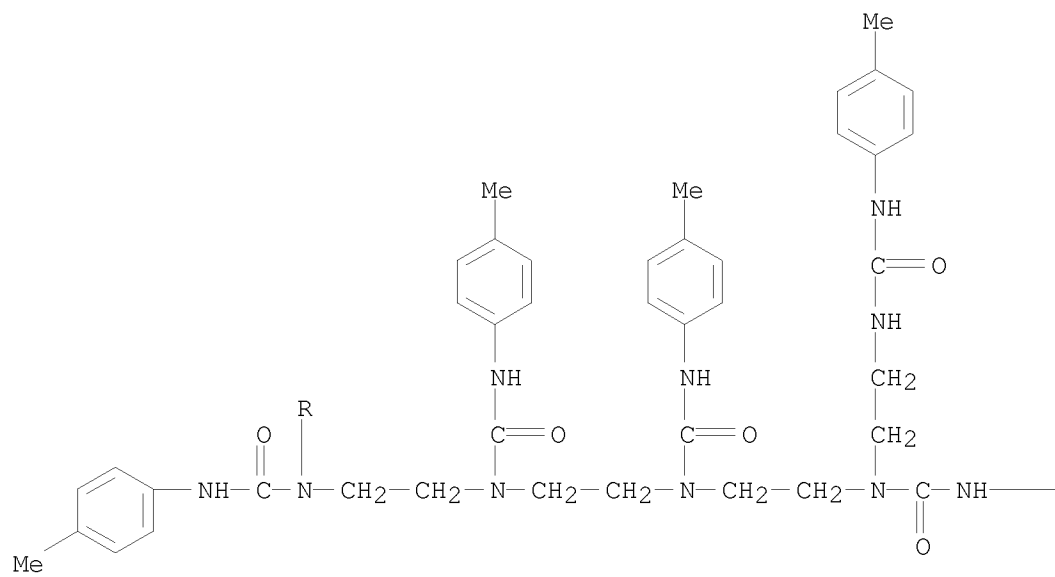
AB Recording media have a support and monomol. layers of a metal chelate and a free ligand stacked together singly or multiply or stacked monomol. layers of a mixture of the metal chelate and the free ligand. The media have high sensitivity to applied energy signals and give images with high resolution. Thus, a CHCl₃ solution of a 1:1 mixture of ligand I and chelate II (1 mM concentration each) was spread on a 0.1 mM CdCl₂ solution to form a mixed monomol. layer and transferred onto a glass plate. The process was repeated until 5 stacked monomol. layers were formed. Patternwise exposure of the material to UV light produced a red-purple image having a resolution of 1000 lines/mm.

IT 103781-94-8
 RL: USES (Uses)
 (photosensitive monomol. layers of metal chelate and, for optical recording materials and photoimaging compns.)

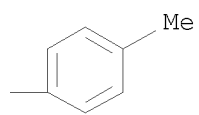
RN 103781-94-8 CAPLUS

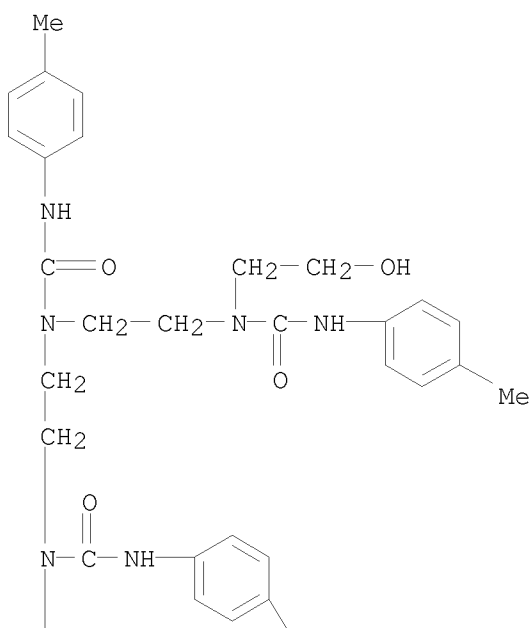
CN 2,5,8,11,14,17,20,23-Octaazatetracosane-5,8,11,14,17,20-hexacarboxamide, 2-(2-hydroxyethyl)-N5,N8,N11,N14,N17,N20-hexakis(4-methylphenyl)-1,24-bis[(4-methylphenyl)amino]-1,24-dioxo- (CA INDEX NAME)

PAGE 1-A



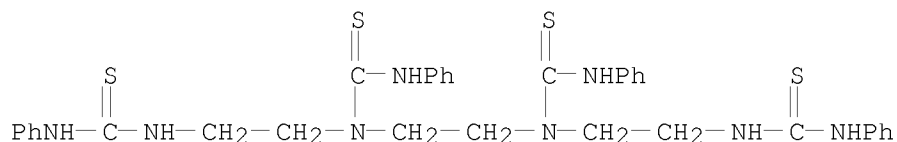
PAGE 1-B



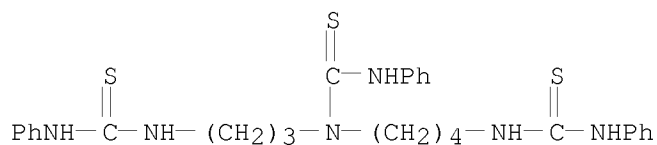


L4 ANSWER 19 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1984:102457 CAPLUS
 DN 100:102457
 OREF 100:15549a,15552a
 TI Catalytic properties of synthetic linear oligomer-copper complexes in
 autoxidation of phenols
 AU Tsukube, Hiroshi; Maruyama, Kazuhiro; Araki, Takeo
 CS Dep. Chem., Okayama Univ., Okayama, 700, Japan
 SO Journal of the Chemical Society, Perkin Transactions 2: Physical Organic
 Chemistry (1972-1999) (1983), (10), 1485-90
 CODEN: JCPKBH; ISSN: 0300-9580
 DT Journal
 LA English
 AB The catalytic properties of Cu complexes of intermediate-sized ligands in
 the autoxidn. of phenols were examined Complexes of CuCl₂ with
 [CH₂CH₂N(CONHPh)]₈, [CH₂CH₂N(CONHBu)]_n and [CH₂CH₂N(CSNHPh)]₈ were
 effective catalysis for the autoxidn. of 2,6-xlenol, giving high reaction
 rates and good coupling selectivity.
 IT 88936-58-7D, copper complexes
 RL: CAT (Catalyst use); USES (Uses)

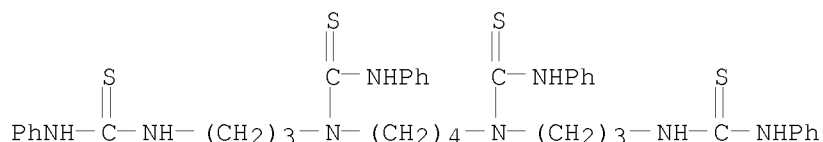
(catalysts, for autoxidn. of phenols)
 RN 88936-58-7 CAPLUS
 CN 2,5,8,11-Tetraazadodecanedithioamide,
 N1,N12-diphenyl-5,8-bis[(phenylamino)thioxomethyl]- (CA INDEX NAME)



L4 ANSWER 20 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1982:118451 CAPLUS
 DN 96:118451
 OREF 96:19398h,19399a
 TI Isolation, separation, and analysis of polyamines via their
 N-phenylaminothiocarbonyl derivatives
 AU Golding, Bernard T.; Nassereddin, Ishaq K.
 CS Dep. Chem. Mol. Sci., University of Warwick, Coventry, CV4 7AL, UK
 SO Journal of Chemical Research, Synopses (1981), (11), 342
 CODEN: JRPSDC; ISSN: 0308-2342
 DT Journal
 LA English
 AB Polyamines react rapidly with PhNCS in aqueous EtOH to form fully blocked
 N-phenylaminothiocarbonyl derivs. These derivs. are suitable for
 chromatog. separation and NMR spectroscopic anal. E.g., cells were obtained
 from an Escherichia coli culture, washed with aqueous NaCl and KCl, and
 extracted
 with aqueous TCA. The extract was filtered, extracted with Et2O, and the
 aqueous layer
 kept. The pH of the aqueous layer was adjusted to 9 with aqueous Na2CO3;
 PhNCS in
 EtOH was added, and the mixture stirred 1 h at room temperature Extraction
 with CH2Cl2
 gave a residue containing mainly the phenylaminothiocarbonyl derivs. of
 putrescine and spermidine, which were separated by preparative TLC.
 IT 81065-67-0P 81065-68-1P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation and NMR of)
 RN 81065-67-0 CAPLUS
 CN Thiourea, N'-phenyl-N-[4-[(phenylamino)thioxomethyl]amino]butyl]-N-[3-
 [(phenylamino)thioxomethyl]amino]propyl]- (CA INDEX NAME)

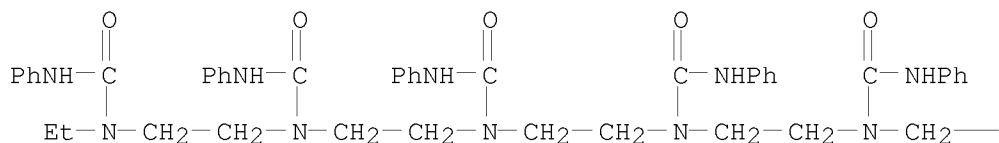


RN 81065-68-1 CAPLUS
 CN 2,6,11,15-Tetraazahexadecanedithioamide,
 N1,N16-diphenyl-6,11-bis[(phenylamino)thioxomethyl]- (CA INDEX NAME)

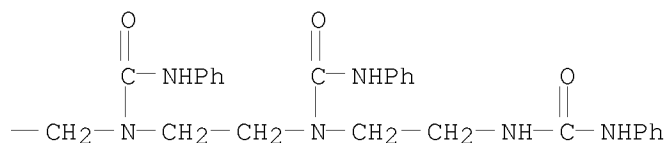


L4 ANSWER 21 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1981:527566 CAPLUS
 DN 95:127566
 OREF 95:21291a,21294a
 TI Highly selective membrane transport of copper(II) ion by synthetic linear oligomer carriers
 AU Maruyama, Kazuhiro; Tsukube, Hiroshi; Araki, Takeo
 CS Dep. Chem., Kyoto Univ., Kyoto, 606, Japan
 SO Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry (1972-1999) (1981), (7), 1486-91
 CODEN: JCDTBI; ISSN: 0300-9246
 DT Journal
 LA English
 AB A new class of synthetic linear oligomeric carriers having urea or thiourea units exts. and transports transition metal ions with high selectivity. The rates and specificities in this transport system are dependent on the carrier structure, the nature of the cotransported anions, and other additives. The best carrier, the urea-containing oligomer [CH₂CH₂N(CONHPh)]₈, shows completely selective transport of Cu²⁺ through a CH₂Cl₂ liquid membrane between aqueous phases, and is thus a chemical analog of biol. Cu transport.
 IT 74010-59-6
 RL: BIOL (Biological study)
 (metal ion transport by, through liquid membrane)
 RN 74010-59-6 CAPLUS
 CN 2,5,8,11,14,17,20,23-Octaazatetracosane-5,8,11,14,17,20-hexacarboxamide, 2-ethyl-1,24-dioxo-N₅,N₈,N₁₁,N₁₄,N₁₇,N₂₀-hexaphenyl-1,24-bis(phenylamino)-(CA INDEX NAME)

PAGE 1-A



PAGE 1-B



OSC.G 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

L4 ANSWER 22 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1981:132566 CAPLUS

DN 94:132566

OREF 94:21563a,21566a

TI An artificial oligomer carrier for transport of organic substrates

AU Maruyama, Kazuhiro; Tsukube, Hiroshi; Araki, Takeo

CS Dep. Chem., Kyoto Univ., Kyoto, 606, Japan

SO Journal of the Chemical Society, Chemical Communications (1980), (24), 1222-4

CODEN: JCCCAT; ISSN: 0022-4936

DT Journal

LA English

AB A new type of lipophilic host oligomer H[CH₂CH₂N(CONHPh)]₈H (I), prepared by ring-opening oligomerization of 1-(N-phenylcarbamoyl)aziridine, efficiently transported biol. important adenine, amino acid, and catechol amine salts as well as simple amine derivs. through artificial membranes. The extraction and transport of organic cation salts by I was compared with dibenzo-18-crown-6 (II). I showed a high specificity towards aromatic amines whereas II extracted and transported both aliphatic and aromatic amines.

IT 74010-59-6P

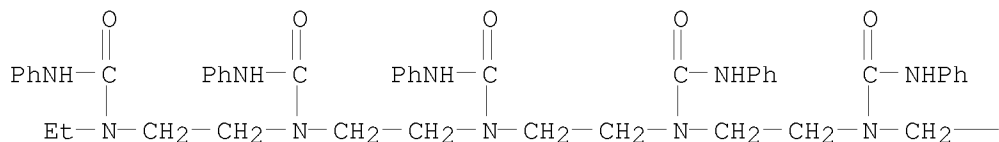
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, and organic cation salt extraction and transport by)

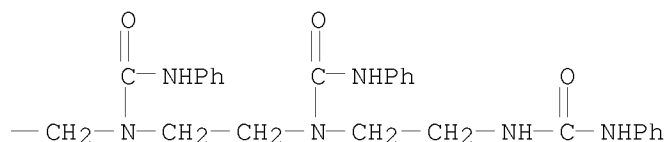
RN 74010-59-6 CAPLUS

CN 2,5,8,11,14,17,20,23-Octaazatetracosane-5,8,11,14,17,20-hexacarboxamide, 2-ethyl-1,24-dioxo-N5,N8,N11,N14,N17,N20-hexaphenyl-1,24-bis(phenylamino)-(CA INDEX NAME)

PAGE 1-A



PAGE 1-B



L4 ANSWER 23 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1980:421127 CAPLUS

DN 93:21127

OREF 93:3543a,3546a

TI New membrane carrier for selective transport of metal ions

AU Maruyama, Kazuhiro; Tsukube, Hiroshi; Araki, Takeo

CS Fac. Sci., Kyoto Univ., Kyoto, 606, Japan

SO Journal of the American Chemical Society (1980), 102(9), 3246-7

DT	Journal
LA	English
AB	A selective membrane system containing a new class of synthetic oligomers, I, II, and III, as mobile carriers is described. This membrane system transported Cu (II) with excellent selectivity and high efficiency, and provided a chemical analog to biol. facilitated transport.
IT	74010-59-6 74010-60-9 RL: BIOL (Biological study) (as membrane carrier, for cation transport)
RN	74010-59-6 CAPLUS
CN	2,5,8,11,14,17,20,23-Octaazatetracosane-5,8,11,14,17,20-hexacarboxamide, 2-ethyl-1,24-dioxo-N5,N8,N11,N14,N17,N20-hexaphenyl-1,24-bis(phenylamino)-(CA INDEX NAME)

$$\text{PhNH}-\overset{\text{O}}{\parallel}{\text{C}}-\text{N}(\text{Et})-\text{CH}_2-\text{CH}_2-\text{N}(\text{Ph})-\overset{\text{O}}{\parallel}{\text{C}}-\text{N}(\text{Et})-\text{CH}_2-\text{CH}_2-\text{N}(\text{Ph})-\overset{\text{O}}{\parallel}{\text{C}}-\text{N}(\text{H})\text{Ph}-\text{CH}_2-\text{CH}_2-\text{N}(\text{Ph})-\overset{\text{O}}{\parallel}{\text{C}}-\text{N}(\text{H})\text{Ph}-\text{CH}_2-$$
$$\begin{array}{ccccccc} & \text{O} & & \text{O} & & & \text{O} \\ & || & & || & & & || \\ & \text{C} - \text{NHPH} & & \text{C} - \text{NHPH} & & & \text{C} - \text{NHPH} \\ | & & & | & & & | \\ -\text{CH}_2- & \text{N}-\text{CH}_2-\text{CH}_2- & \text{N}-\text{CH}_2-\text{CH}_2- & \text{NH}- & \text{C}- & \text{NHPH} \\ & & & & & & | \\ & & & & & & \text{O} \end{array}$$

RN	74010-60-9	CAPLUS
CN	2,5,8,11,14,17,20,23-Octaazapentacosane-5,8,11,14,17,20,23-heptacarbothioamide, N,N',N'',N''',N''',N''',N''''-heptaphenyl-1-(phenylamino)-1-thioxo- (9CI) (CA INDEX NAME)	

$$\begin{array}{ccccccccc} \text{S} & & \text{S} & & \text{S} & & \text{S} & & \text{S} \\ || & & || & & || & & || & & || \\ \text{PhNH}-\text{C} & & \text{PhNH}-\text{C} & & \text{PhNH}-\text{C} & & \text{C}-\text{NHPh} & & \text{C}-\text{NHPh} \\ | & & | & & | & & | & & | \\ \text{Et}-\text{N}-\text{CH}_2-\text{CH}_2-\text{N}-\text{CH}_2-\text{CH}_2-\text{N}-\text{CH}_2-\text{CH}_2-\text{N}-\text{CH}_2-\text{CH}_2-\text{N}-\text{CH}_2- \end{array}$$
$$\begin{array}{ccccccc} & \text{S} & & \text{S} & & & \text{S} \\ & || & & || & & & || \\ \text{---CH}_2\text{---} & \text{C---NHPH} & \text{---CH}_2\text{---CH}_2\text{---} & \text{C---NHPH} & \text{---CH}_2\text{---CH}_2\text{---} & \text{NH---} & \text{C---NHPH} \end{array}$$

OSC.G 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

L4 ANSWER 24 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1976:45964 CAPLUS

DN 84:45964

OREF 84:7553a,7556a

TI Polythioureas to inhibit ozone fading of dyed polyamides

IN Wells, Rodney Lee; Lofquist, Robert A.; Lazarus, Stanley D.

PA Allied Chemical Corp., USA

SO U.S., 7 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 3917449	A	19751104	US 1974-441595	19740211
				US 1974-441595	19740211

AB Ozone [57898-00-7] fading of polyamide fibers dyed with disperse or cationic dyes was reduced by coating the fibers with polythioureas prepared by treating alkyl isothiocyanates with primary or secondary amines or polyamines such as dimer diamine. Thus, nylon 6 yarn was knitted into sleeves which were sprayed with D(NHHC₃₆SNHCH₂H:CH₂)₂ (D is a C₃₆ hydrocarbon residue of a dimer acid) to provide 1.1% add-on and dyed with C. I. Disperse Yellow 3 and C. I. Disperse Blue 7. When the dyed sleeves were exposed to 3 cycles of O₃ in an atmosphere containing 0.2 ppm O₃ at 104°F and relative humidity .apprx.90%, the fading was much smaller than that of a control containing no polythiourea. The lightfastness, determined

by exposure to a xenon lamp at 145°, was 60 hr compared to 40 hr for the untreated control.

IT 57898-07-4

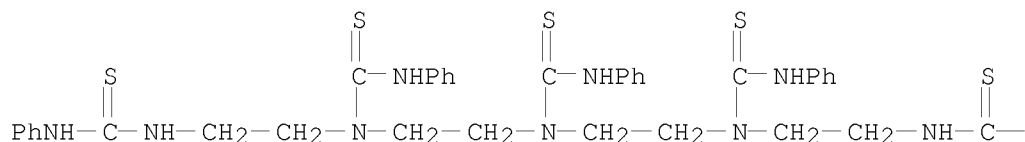
RL: USES (Uses)

(ozone fading prevention by, of cationic and disperse dyes on polyamide fibers)

RN 57898-07-4 CAPLUS

CN 2,5,8,11,14-Pentaazapentadecanedithioamide,
N1,N15-diphenyl-5,8,11-tris[(phenylamino)thioxomethyl]- (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

— NHPh

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L4 ANSWER 25 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1963:448249 CAPLUS

DN 59:48249

OREF 59:8696b-h,8697a-f

TI Reactions of 2-vinylpyridine with aliphatic diamines

AU Profft, Elmar; Lojack, Siegfried

CS Tech. Coll. Chem., Leuna-Merseburg, Germany

SO Rev. Chim., Acad. Rep. Populaire Roumaine (1962), 7(1), 405-29

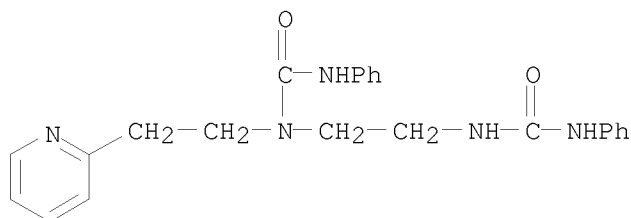
DT Journal

LA German

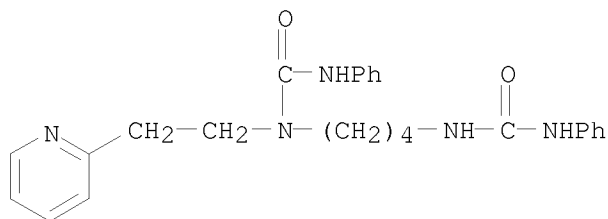
AB The reactions between 2-vinylpyridine (Ia) and 4 aliphatic diamines, ethylene-, tetramethylene-, hexamethylene-, and octamethylenediamine, were studied, and the expected mono-, di-, tri-, and tetra-addition compds. obtained. The best operating conditions were obtained for each product; paper-chromatographic separation [Patridge mixture (40:10:50 BuOH-AcOH-H₂O, pH 2.9) as ascending agent, 0.2% ninhydrin in BuOH as developing agent] has enabled insight into the reaction mechanism and course. It was determined that generally the mono- and di-addition products were best prepared in C₆H₆ with AcOH or EtCO₂H as catalyst, while the tri- and tetra-addition compds. were formed at high temps. and long reaction times, with the same catalysts. These new amines were examined for their structure by conversion with ethylene oxide to aminoalcs., by cyclization to morpholines, by reaction with acrylonitrile to cyanoethyl compds., by ketenization, and some other measures. Diazotization of N,N-bis[2-(2-pyridyl)ethyl]ethylenediamine has proven that the reaction between diamines and 2 moles Ia takes place by addition at the N,N-position. The following compds. were obtained [% yield, b.p./mm., n_D20 given], all (unless otherwise stated) being liquids, soluble in water, EtOH, and ether]: N-[2-(2-pyridyl)ethyl]ethylenediamine, 29.1, 77°/0.01, 1.5382; N-[2-(2-pyridyl)ethyl]-N-acetyethylenediamine, 43.3, 108°/0.003, 1.5463; N-[2-(2-pyridyl)ethyl]-N,N'-diacetyethylenediamine, 45.8, 136°/0.003, 1.5496; N-[2-(2-pyridyl)ethyl]-N'-(β-hydroxyethyl)ethylenediamine, 50, 110°/0.003, 1.5342, N-[2-(2-pyridyl)ethyl]-N',N'-bis(β-hydroxyethyl)ethylenediamine, 73, 138°/0.01, 1.5265; N-2-[β-(2-pyridyl)ethylamino]-1-morpholinoethane, 43.5, 75-80°/15, 1.5140; N-[2-(2-pyridyl)ethyl]-N,N',N'-tris(β-hydroxyethyl)ethylenediamine, 41, 172°/0.01, 1.5123; N-[2-(2-pyridyl)ethyl]-N-(dichloroacetyl)-N,N'-bis(dichloroacetoxyethyl)ethylenediamine, 21, - (yellow, m. 170°), -, N-[2-(2-pyridyl)ethyl]-β-benzoyloxyethylamine, 38, - (m. 152°); N-2-(2-pyridyl)ethyl-N,N'-bis(octylsulfonyl)ethylenediamine, 84, - (m. 77°), -; N-[2-(2-pyridyl)ethyl]-N,N',N'-tris(butylsulfonyl)ethylenediamine, 72, - (decomposed 270°), -; N-[2-(2-pyridyl)ethyl]-N,N'-dicarbanilidoethylenediamine, 81, - (m. 138°), -; N-[2-(2-pyridyl)ethyl]-N'-butylethylenediamine, 22, 69°/0.001, 1.5075; N-[2-(2-pyridyl)ethyl]tetramethylenediamine, 43.6, 83°/0.01, 1.5268; N-[2-(2-pyridyl)ethyl]-N'-acetyltetramethylenediamine, 41, 108°/0.001, 1.5205; N-[2-(2-pyridyl)ethyl]-N,N'-diacetyltetramethylenediamine, 44, 138°/0.001, 1.5262; N-[2-(2-pyridyl)ethyl]-N'-(β-hydroxyethyl)tetramethylenediamine, 45.4, 120°/0.01, 1.5220; N-[2-(2-pyridyl)ethyl]-N,N-bis(β-hydroxyethyl)tetramethylenediamine, 73.9, 150°/0.01, 1.5187; 1-[β-(2-pyridyl)ethylamino]-4-morpholinobutane, 32, 100°/1, 1.5096; N-[2-(2-pyridyl)ethyl]-N,N,N-tris(β-hydroxyethyl)tetramethylenediamine, 30, 175°/-, 1.5047;

N-[2-(2-pyridyl)ethyl]-N,N'-dicarbanilidotetramethylenediamine, 94.2, -
 (m. 156°), -; N-[2-(2-pyridyl)ethyl]hexamethylenediamine (I), 45.3,
 91-3°/0.002, 1.5160; N-[2-(2-pyri
 dyl)ethyl]-N'-acetylhexamethylenediamine, 38.2, 118°/0.002 1.5038
 (insol. in water); N-[2-(2-pyridyl)ethyl]-N,N'-
 diacetylhexamethylenediamine, 43.4, 143°/0.002, 1.5192 (insol. in
 water); N-[2-(2-pyridyl)ethyl]-N,N',N'-triacetylhexamethylenediamine,
 37.7, 205°/0.02, 1.5230 (no solubility given);
 N-[2-(2-pyridyl)ethyl]-N'-(β-hydroxyethyl)hexamethylenediamine, 47,
 125°/0.01, 1.5168 (no solubility given);
 N-[2-(2-pyridyl)ethyl]N',N'-bis(β-hydroxyethyl)hexamethylenediamine,
 50, 166-8°/0.004, 1.5101;
 1-[β-(2-pyridyl)ethylamino]-1-6-N-morpholino-n-hexane, 32,
 110°/1, 1.5026 (no solubility given);
 N-[2-(2-pyridyl)ethyl]-N,N',N'-tris(β-
 hydroxyethyl)hexamethylenediamine, 60, 186°/0.01, 1.5000;
 N-[2-(2-pyridyl)ethyl]octamethylenediamine, 46.8, 113°/0.002,
 1.5100; N-[2-(2-pyridyl)ethyl]-N'-acetyloctamethylenediamine, 40,
 125°/0.001, 1.5027 (no solubility given);
 N-[2-(2-pyridyl)ethyl]-N,N'-diacetyloctamethylenediamine, 37,
 165°/0.002, 1.5126; N-[2-(2-pyridyl)ethyl]-N,N',N'-
 triacetyloctamethylenediamine, 61, 208°/0.001, 1.5216 (no solubility
 given); N-[2-(2-pyridyl)ethyl]-N'-(β-
 hydroxyethyl)octamethylenediamine, 49, 126°/0.001, 1.5023;
 N-[2-(2-pyridyl)ethyl]-N,N'-bis(β-hydroxyethyl)octamethylenediamine,
 40.4, 172°/0.02, 1.5158; N,N-bis[2-(2-
 pyridyl)ethyl]ethylenediamine, 4.7, 120°/0.004, 1.5426 (no solubility
 given); N,N-bis[2-(2-pyridyl)ethyl]-N'-acetylethylenediamine, 37,
 138-40°/0.003, 1.5464 (insol. in water);
 N,N-bis[2-(2-pyridyl)ethyl]-N,N'-diacetylethylenediamine, 25,
 156°/0.003, 1.5410 (no solubility given);
 N,N-bis[2-(2-pyridyl)ethyl]-N-(2-benzoyloxyethyl)amine, 32.5, - (m.
 172°), -; N,N-bis [2-(2-pyridyl)ethyl] tetramethylenediamine, 1.76,
 128°/0.001, 1.5368; N,N-bis[2-(2-
 pyridyl)ethyl]hexamethylenediamine, 14.3, 136°/0.002, 1.5216;
 N,N-bis[2-(2-pyridyl)ethyl]-N'-acetylhexamethylenediamine, 31,
 143°/0.001, 1.5142; N,N-bis[2-(2-pyridyl)ethyl]-N',N'-
 diacetylhexamethylenediamine, 25, 163°/0.002, 1.5236;
 N,N-bis[2-(2-piperidyl)ethyl]hexamethylenediamine, 68.3,
 136°/0.002, 1.5216; N,N-bis[2-(2-pyridyl)ethyl]bis(β-
 hydroxyethyl)hexamethylenediamine, 53, 160°/0.005, 1.5074,
 N,N-bis[2-(2-pyridyl)ethyl]octamethylenediamine, 13.6, 148°/0.001,
 1.5246; N,N,N'-tris[2-(2-pyridyl)ethyl]ethylenediamine, 27.4,
 148°/0.01, 1.5544; N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-
 acetylethylenediamine, 58.8, 180°/0.01, 1.5361 (no solubility given);
 N,N,N'-tris[2-(2-pyridyl)ethyl]-N'ethoxymethylethylenediamine, 13.9,
 90-5°/0.02, 1.5563; N-[2-(2-pyridyl)ethyl]-N,N'-bis[β-(2-
 pyridyl)-γ-hydroxypropyl]-N'-ethoxymethylethylenediamine, 56.3,
 168°/0.001, 1.5642 (no solubility given);
 N-[2-(2-pyridyl)ethyl]-N,N'-bis[β-(2-pyridyl)allyl]-N'-
 ethoxymethylethylenediamine, 43.2, -, 1.5667 (no solubility given);
 N,N,N'-tris[2-(2-pyridyl)-β,β-bis(hydroxymethyl)ethyl]-N'-
 ethoxymethylethylenediamine, 70.5, -, 1.5720 (no solubility given);
 N,N,N'-tris[2-(2-pyridyl)ethyl]tetramethylenediamine, 26.6,
 156°/0.001, 1.5487; N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-
 acetyltetramethylenediamine, 78, 162°/0.001, 1.5316;
 N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-(β-
 cyanoethyl)tetramethylenediamine, 61.7, 158°/0.02, 1.5318;

N,N,N'-tris[2-(2-pyridyl)ethyl]hexamethylenediamine, 27.1, 163°/0.001, 1.5340; N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-acetylhexamethylenediamine, 86.3, 175°/0.005, 1.5348; N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-(β-hydroxyethyl)hexamethylenediamine, 72, 139°/0.001, 1.5191; N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-(cyanoethyl)hexamethylenediamine, 53.5, 193°/0.08, 1.5020 (no solubility given); N,N,N'-tris[2-(2-pyridyl)ethyl]-N-(γ-aminopropyl)hexamethylenediamine, 79.5, 152°/0.002, 1.5175 (no solubility given); N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-(2-carbamoyl)ethyl)hexamethylenediamine, 39, - (m. 342°), -; N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-carbanilido)hexamethylenediamine, 79, - (m. 134°), -; N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-(thiocarbanilido)hexamethylenediamine, 68.6, - (m. 85°), -; N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-propen-2-yl)hexamethylenediamine, 18.3, 95-100°/0.001, 1.5118 (no solubility given); N,N,N'-tris[2-(2-pyridyl)ethyl]octamethylenediamine, 52.9, 185°/0.001, 1.5380 (no solubility given); N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-acetyloctamethylenediamine, 59.4, 193°/0.001, 1.5219 (no solubility given); N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-(β-cyanoethyl)octamethylenediamine, 66.4, 162°/0.02, 1.5073; N,N,N',N'-tetrakis[2-(2-pyridyl)ethyl]ethylenediamine, 5, 183°/0.01, 1.5616 (no solubility given); N,N,N',N'-tetrakis[2-(2-pyridyl)ethyl]tetramethylenediamine, 2, 183-5°/0.001, 1.5546 (no solubility given); N,N,N',N'-tetrakis[2-(2-pyridyl)ethyl] hexamethylenediamine, 2.8, 220°/0.02, 1.5452 (no solubility given); N,N,N',N'-tetrakis[2-(2-pyridyl)ethyl]octamethylenediamine, 2.55, 225°/0.001, 1.5463 (no solubility given).
 IT 102218-88-2P, Urea, 1-[2-(2-pyridyl)ethyl]-1,1'-ethylenebis[3-phenyl- 103734-40-3P, Urea, 1-[2-(2-pyridyl)ethyl]-1,1'-tetramethylenebis[3-phenyl-
 RL: PREP (Preparation)
 (preparation of)
 RN 102218-88-2 CAPLUS
 CN Urea, 1-[2-(2-pyridyl)ethyl]-1,1'-ethylenebis[3-phenyl- (7CI) (CA INDEX NAME)



RN 103734-40-3 CAPLUS
 CN Urea, 1-[2-(2-pyridyl)ethyl]-1,1'-tetramethylenebis[3-phenyl- (7CI) (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L4 ANSWER 26 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1958:92326 CAPLUS

DN 52:92326

OREF 52:16185d-e

TI Reaction of free radicals in solutions. VII. Role of activators in the process of decomposition of triazenes and in initiation of polymerization

AU Andakuskin, V. Ya.; Dolgoplosk, B. A.; Radchenko, I. I.

SO Zhurnal Obshchei Khimii (1956), 26, 3789-95

CODEN: ZOKHA4; ISSN: 0044-460X

DT Journal

LA English

AB See C.A. 51, 9511g.

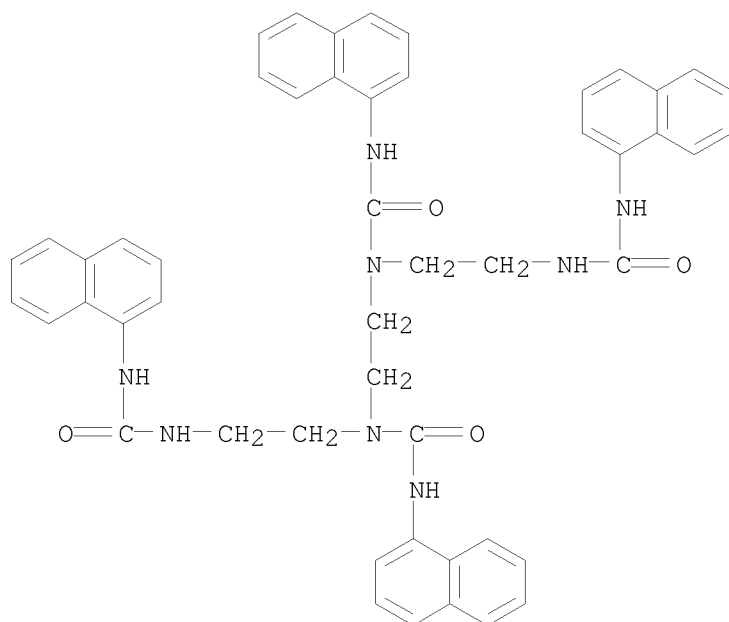
IT 108515-69-1P, Urea, 1,1'-ethylenebis[3-(1-naphthyl)-1-[2-[3-(1-naphthyl)ureido]ethyl]- 108992-90-1P, Urea, 1,1'-ethylenebis[3-(2-biphenyl)-1-[2-[3-(2-biphenyl)ureido]ethyl]- 122595-05-5P, Urea, 1,1'-ethylenebis[3-phenyl-1-[2-(3-phenylureido)ethyl]-

RL: PREP (Preparation)

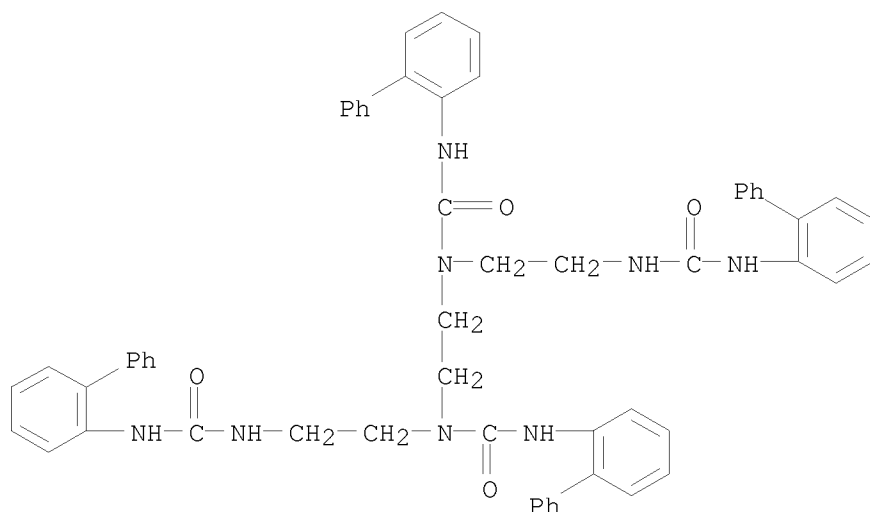
(preparation of)

RN 108515-69-1 CAPLUS

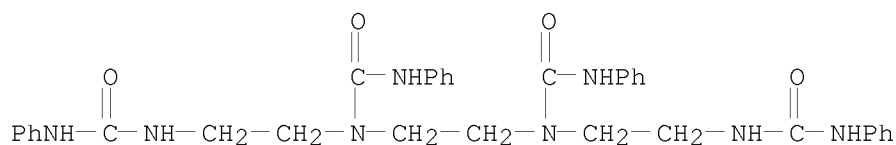
CN 2,5,8,11-Tetraazadodecanediamide, N1,N12-di-1-naphthalenyl-5,8-bis[(1-naphthalenylamino)carbonyl]- (CA INDEX NAME)



RN 108992-90-1 CAPLUS
 CN 2,5,8,11-Tetraazadodecanediamide, N1,N12-bis([1,1'-biphenyl]-2-yl)-5,8-bis[([1,1'-biphenyl]-2-ylamino)carbonyl]- (CA INDEX NAME)



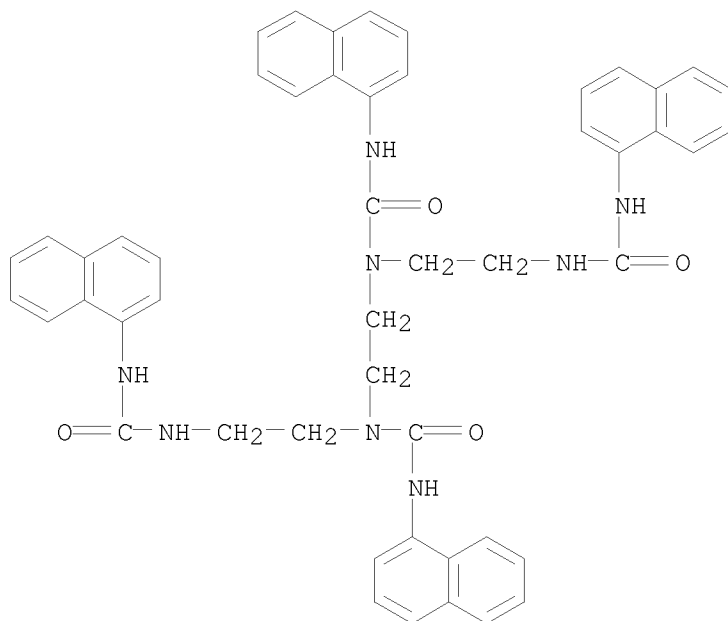
RN 122595-05-5 CAPLUS
 CN 2,5,8,11-Tetraazadodecanediamide, N1,N12-diphenyl-5,8-bis[(phenylamino)carbonyl]- (CA INDEX NAME)



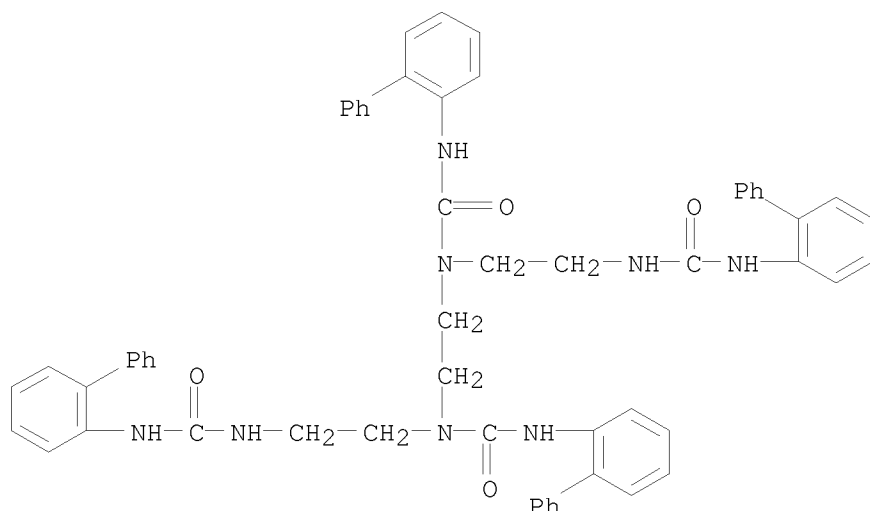
L4 ANSWER 27 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1958:92325 CAPLUS
 DN 52:92325
 OREF 52:16185b-d
 TI Tetracarbamyl derivatives of 1,2-bis(2-aminoethyl)ethylenediamine
 AU Neville, Roy G.
 CS Fine Chemicals, Inc., Seattle, WA
 SO Journal of Organic Chemistry (1958), 23, 296-7
 CODEN: JOCEAH; ISSN: 0022-3263
 DT Journal
 LA Unavailable
 AB (CH₂)₂[NH(CH₂)₂NH₂]₂, (I) was fractionally distilled and the liquid, b₂₀ 157°, collected and stored in brown bottles. The following general method for preparing [CH₂N(CONHR)(CH₂)₂NHCONHR]₂ (II) was as follows. The isocyanate (0.04 mole) was added cautiously to 1.46 g. I in 10-20 ml. ice-cold CHCl₃ (strongly exothermic reaction) and the temperature maintained below 30°, on cooling the crystalline derivative filtered off, washed, dried, and recrystd. from iso-PrOH to give II. When 1:2 or 3:4 molar ratios of I and toluene 2,4-diisocyanate or toluene 2,4,6-triisocyanate were used the products were viscous polymers. The following II were thus

prepared (R, % yield, and m.p. given): allyl, 97, 211°; iso-Pr, 96, 245-7° (decomposition); Bu, 98, 216-17°; cyclohexyl, 100, 246-7° (decomposition); Ph, 100, 237-8°; Me(CH₂)₇, 98, 97-8°; dodecyl, 96, 170-1°; octadecyl, 95, 162°; α-C₁₀H₇, 98, 182°; β-C₁₀H₇, 92, 222°. The lower-member products were crystalline whereas the higher- or long-chain derivs. were waxy solids easily soluble in alc.

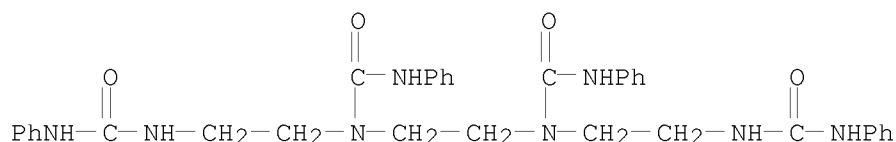
IT 108515-69-1P, Urea, 1,1'-ethylenebis[3-(1-naphthyl)-1-[2-[3-(1-naphthyl)ureido]ethyl]- 108992-90-1P, Urea, 1,1'-ethylenebis[3-(2-biphenyl)-1-[2-[3-(2-biphenyl)ureido]ethyl]- 122595-05-5P, Urea, 1,1'-ethylenebis[3-phenyl-1-[2-(3-phenylureido)ethyl]-
 RL: PREP (Preparation)
 (preparation of)
 RN 108515-69-1 CAPLUS
 CN 2,5,8,11-Tetraazadodecanediamide, N1,N12-di-1-naphthalenyl-5,8-bis[(1-naphthalenylamino)carbonyl]- (CA INDEX NAME)



RN 108992-90-1 CAPLUS
 CN 2,5,8,11-Tetraazadodecanediamide, N1,N12-bis([1,1'-biphenyl]-2-yl)-5,8-bis([(1,1'-biphenyl)-2-ylamino]carbonyl)- (CA INDEX NAME)



RN 122595-05-5 CAPLUS
 CN 2,5,8,11-Tetraazadodecanediamide, N1,N12-diphenyl-5,8-bis[(phenylamino)carbonyl]- (CA INDEX NAME)



L4 ANSWER 28 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1957:62160 CAPLUS
 DN 51:62160
 OREF 51:11268b-i,11269a-i,11270a-f
 TI Preparation and bacteriostatic activity of substituted ureas
 AU Beaver, David J.; Roman, Daniel P.; Stoffel, Paul J.
 CS Monsanto Chem. Co., St. Louis, MO
 SO Journal of the American Chemical Society (1957), 79, 1236-45
 CODEN: JACSAT; ISSN: 0002-7863
 DT Journal
 LA Unavailable
 AB cf. C.A. 49, 924b. The preparation and in vitro bacteriostatic activity of some ureas, carbanilides, and related compds. against *Micrococcus pyrogenes* var. *aureus* are described. The bacteriostatic properties of ureas were remarkably specific in that activity was greatly enhanced or completely lost with slight changes in chemical structure. Activity is drastically reduced by o-substitution regardless of the electronic character of the substituent. Thioureas were invariably less effective than similarly substituted ureas. Bromocarbanilides were less active than the Cl compds. in both ureas and thioureas. Procedure A: PhNCO (11.9 g.) in 50 cc. Et2O added dropwise to 16.2 g. 3,4-Cl2C6H3NH2 (I) in 50 cc. Et2O, the mixture held 2 hrs., and filtered yielded 3,4-dichlorocarbanilide. In the subprocedures the following solvents were used: A2, Skellysolve; A3, C6H6; A4, Me2CO; A5, absolute EtOH; A6, none; A7, none, 4 hrs. at 90°. Procedure B: 3,4-Cl2C6H3NCS (20.4 g.) and 16.2 g. I in 75 cc.

absolute EtOH refluxed 1 hr. yielded 3,3',4,4'-tetrachlorothiocarbanilide. Procedure C: PhNCO (11.9 g.) in 400 cc. Et₂O at 20° treated with anhydrous NH₃ yielded phenylurea. Procedure D: 2-C₁₀H₇NH₂ (60.0 g.) and 24.0 g. urea heated to 160° and held there 3 hrs. yielded 1,3-di-2-naphthylurea. Procedure E: Cyclohexylamine (60.0 g.) in 800 cc. PhMe treated at 100° with COCl₂ yielded 1,3-dicyclohexylurea. For compds. of the type RNHC(:X)NHR', R, X, R', procedure, % yield, and m.p. are: H, O, 2-C₁₀H₇, C, 96.8, 212° (decomposition); H, O, 4-biphenyl, C, 97.0, 209° (decomposition); 1-C₁₀H₇, O, 1-C₁₀H₇, D, 49.8, 295-6°; 2-C₁₀H₇, O, 2-C₁₀H₇, D, 86.7, 305-6°; 2-C₁₀H₇, O, CH₂CH₂CH₂OMe, A, 80.0, 142.5-3.0°; 1-C₁₀H₇, O, cyclohexyl, A, 100.0, 237.0-8.0°; 2-C₁₀H₇, O, dicyclohexyl, A, 99.3, 177.3-7.8°; cyclohexyl, O, cyclohexyl, E, 30.2, 226.0-7.0°; dicyclohexyl, O, Et, A, 87.4, 146.8-7.5°; dicyclohexyl, O, dicyclohexyl, E, 36.5, 81.0-1.7°; cyclohexyl, S, Ph, A₅, 91.5, 150.1-50.9°; cyclohexyl, S, 4-C₆H₄OEt, B, 74.5, 122.2-3.0°; cyclohexyl, S, 4-Me₂NC₆H₄, B, 91.0, 127.0-7.8°; cyclohexyl, S, 1-C₁₀H₇, B, 74.2, 141.8-2.5°; cyclohexyl, S, dicyclohexyl, B, 49.2, 103.2-3.6°; Ph, S, 4-Me₂NC₆H₄, B, 84.2, 154.4-4.8°; Ph, S, 2-C₁₀H₇, B, 83.6, 158.2-9.0°; Ph, S, dicyclohexyl, B, 63.7, 86.5-7.3°; Ph, S, 4-C₆H₄OEt, A₅, 89.8, 133.9-4.3°; 3,4-Br₂C₆H₃, S, 4-BrC₆H₄, A₇, 47.5, 125.0-6.1°. For RC₆H₄NHCONR₁R₂, R, R₁, R₂, procedure, % yield, and m.p. are: H, H, H, C, 61.5, 148.5-9.0°; H, H, CH₂CH₂CH₂NEt₂, A₆, 100, 69.5-70.0°; H, H, CH₂CH₂CH₂NHCHMe₂, A₂, 58.0, 143.7-4.2°; H, H, CH₂CH₂CH₂OMe, A₇, 100.0, 87.5-8.2°; H, H, cyclohexyl, A₇, 97.3, 186.3-7.1°; H, H, 2-C₁₀H₇, A₅, 73.3, 233.0-4.0°; H, cyclohexyl, cyclohexyl, A, 79.4, 180.3-1.3°; H, allyl, allyl, A₂, 100.0, 65.5-6.0°; H, PhNHCONHCH₂CH₂CH₂, PhNHCONHCH₂CH₂CH₂, A₆, 100, 132° (decomposition); H, Bu, Bu, A₆, 98.6, 82.7-3.0°; H, heptyl, heptyl, A, 76.0, -; H, 2-ethylhexyl, 2-ethylhexyl, A₇, 93.7, -; H, Ph, Ph, A₇, 86.8, 136.0-6.6°; 2-Me, H, cyclohexyl, A, 95.1, 196.1-6.5°; 2-Me, cyclohexyl, cyclohexyl, A, 86.0, 142.2-2.8°; 4-Me, H, cyclohexyl, A, 100.0, 205.2-5.8°; 4-Me, cyclohexyl, cyclohexyl, A, 91.5, 173.4-3.7°; 2-MeO, cyclohexyl, cyclohexyl, A, 100.0, 155.3-6.0°; 2-EtO, H, CH₂CH₂CH₂OMe, A₆, 78.0, 86.6-7.2°; 2-EtO, H, 2-C₁₀H₇, A, 71.0, 177.5-8.2°; 2-EtO, cyclohexyl, cyclohexyl, A, 65.2, 99.8-100.4°; 4-EtO, H, Et, A, 85.3, 151.9-2.4°; 4-EtO, H, 1-C₁₀H₇, A, 97.6, 238.0-9.0°; 4-EtO, H, 2-C₁₀H₇, A, 99.3, 237.4-8.0°; 4-EtO, H, cyclohexyl, A, 95.6, 182.6-3.0°; 4-EtO, cyclohexyl, cyclohexyl, A, 91.8, 149.6-50.2°; dodecyl, cyclohexyl, cyclohexyl, A₂, 100.0, -; 4-Me₂N, 1-C₁₀H₇, H, A, 96.0, 227.5-8.5°; 4-Me₂N, 2-C₁₀H₇, H, A, 91.3, 252-3°; 2-Ph, H, Et, A, 88.0, 114.6-15.2°; 2-Ph, cyclohexyl, cyclohexyl, A, 100, 110.0-10.7°; 2-Ph, H, CH₂CH₂CH₂NEt₂, A₆, 100.0, 76.4-7.0°; 4-Cl, formyl, 2,4-Cl₂C₆H₃, A₇, 85.3, 118.5-19.1°; 4-Cl, formyl, 3,4-Cl₂C₆H₃, A₇, 63.0, 122.5-3.5°; 4-Cl, allyl, 3,4-Cl₂C₆H₃, A₂, 87.2, 151.2-2.0°; 2-MeO, formyl, 2,5-Cl₂C₆H₃, A₇, 71.0, 152.5-3.0°. For compds. of the type RC₆H₄NHCONHC₆H₄R', R, R' (all procedure A except as noted), % yield, and m.p. are: H, 2-MeO, 84.3, 146.2-6.8°; H, 2-EtO, 94.4, 173.8-4.2°; H, 4-EtO, 100.0, 188.2-8.8°; H, 2-Et, 61.2, 184.9-5.5°; H, 4-Me₂N, 94.0, 208.0-8.8°; H, 4-Et₂N, 88.8, 178.7-9.3°; H, 2-Ph, 95.7, 173.0-3.6°; H, 4-Ph, 85.5, 240-1°; H, 4-H₂N, 78.5, above 400°; H, 4-PhNH, 98.2, 212.8-13.8°; H, 4-Cl, 95.0, 250-1°; 2-MeO, 2,4-Cl₂, 99.5, 222.3-3.0°; 4-MeO, 2,4-Cl₂, 58.0, 230.0-30.5°; 2-EtO, 4-EtO, 65.2, 146.4-7.0°; 4-EtO,

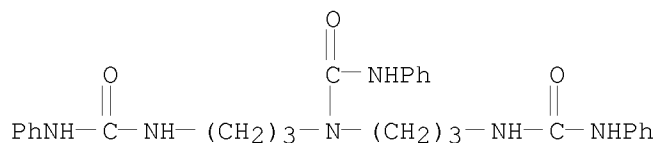
2-Me, 84.0, 202.0-2.4°; 4-EtO, 4-Me, 100.0, 220.4-1.0°; 4-EtO, 4-Me2N, 91.1, 211.8-12.2°; 4-EtO, dodecyl, A2, 100.0, -; 4-EtO, 2-Ph, 95.8, 194.8-5.4°; 2-Ph, 4-PhNH, 86.8, 155.8-6.2°; 2-Ph, 2-Ph, 74.0, 182.2-2.8°; 4-Ph, 4-Ph, 76.5, 312° (decomposition); 4-Cl, 4-Cl, 98.0, 315-19°; 4-Cl, 2,4-Cl2, 98.0, 253.0-3.8°; 4-Cl, 2,5-Cl2, 83.0, 261.5-2.5°; 3-Cl, 3,4-Br2, 94.0, 208-5-9.0°; 2,4-Cl2, 2,4-Cl2, 97.5, 261-3°.

For 3,4-Cl2C6H3NHCONRR', R, R' (all procedure A except as noted), % yield, and m.p. are: H, H, C, 93.7, 155.6-6.3°; H, Et, 100.0, 179.5-80.1°; H, tert-octyl, 100.0, 145.8.6°; H, cyclohexyl, 100.0, 188.0-8.7°; H, 1-Cl10H7, 97.0, 265-6°; H, 2-Cl10H7, 97.2, 267-8°; H, CH2CH(OH)Me, 100, 152.0-2.8°; H, CH2CH2CH2OH, 98.8, 126.5-8.0°; H, tetrahydrofurfuryl, 100.0, 144.1-4.9°; Et, 4-ClC6H4, 77.0, 116.0-6.8°; allyl, allyl, A2, 100.0, 62.5-3.5°; allyl, iso-Pr, 93.4, 84.0-4.5°; CH2CH2OH, CH2CH2OH, 65.0, 156.8-7.6°; CH2:CClCH2, CH2:CClCH2, 100, 100.7-1.4°; CH2:CClCH2, iso-Pr, 100, 84.7-5.2; CH2:CClCH2, tert-Bu, 100.0, 93.9-5.0°; CHCl:CHCH2, CHCl:CHCH2, 100.0, 156.0-6.6°; CH2:CClCH2, CH2CH2CH2OMe, A2, 100, -; CH2:CClCH2, Ph, A7, 92.9, 118.7-9.4°; H, CHCl:CClCH2, 61.2, 105.1-5.9°; Bu, Ph, 96.5, 98.5-9.4°; CH2CH2CN, Ph, 89.3, 114.7-15.5°; iso-Pr, MeC.tplbond.C, 71.1, 84.4-5.1°; Ph, Ph, 39.5, 148.3-9.1°; cyclohexyl, cyclohexyl, 98.0, 177.6-8.4°; cyclohexyl, MeCH:CClCH2, 88.7, 160.4-60.8°; allyl, 4-C6H4OEt, 100, -; allyl, 3,4-Cl2C6H3, A2, 87.3, 116.8-17.5°; MeC.tplbond.C, 3,4-Cl2C6H3, 69.0, 145.2-6.0°; Bu, Ph, 96.5, 98.5-9.4°; H, 2-thiazolyl, A4, 99.0, 225° (decomposition). For 3,4-Cl2C6H3NHCONHC6H4R, R, procedure (A unless otherwise noted), % yield, and m.p. are: H, 100, 217.2-7.7°; 4-Me, 100.0, 258.0-9.0°; 2-MeO, 95.2, 173.8-4.3°; 4-MeO, 93.5, 233.1-4.0°; 4-Me2N, 95.0, 229.6-30.4°; 4-H2N, A3, 96.0, above 360°; dodecyl, A7, 98.0, -; 2-Ph, 91.6, 183.3-4.1; 4-Ph, 84.5, 233.0-4.0°; 2-Cl, 87.0, 220.0-20.6°; 3-Cl, 91.5, 210.7-11.3°; 4-Cl, 88.0, 255.2-56.2°; 2,4-Cl2, 97.3, 238.5-9.2°; 2,5-Cl2, 94.2, 242.2-2.6°; 3,4-Cl2, 100.0, 281-2°; 3,4,5-Cl3, 100.0, 308-10°; 3-Cl-4-HO, 95.4, 237.4-8.0°; 3,5-Cl2-4-HO, 92.4, 272-3°; 3-Br, 100.0, 208.5-9.2°; 4-PhNH, 100, 208.8-9.5°; 4-HO, A3, 82.5, 213.8-14.5°; 4-NO2, 95.3, 294-5°; 4-sulfamyl, A4, 83.6, 258.5-9.5°; 4-(2-thiazolesulfamyl), A4, 82.8, 271-2°; 4-(2-pyrimidinesulfamyl), A4, 79.0, 290° (decomposition). For RC6H4NHC:XR', R, X, R', procedure, % yield, and m.p. are; H, O, morpholino, A, 74.5, 159.3-60.0°; H, S, morpholino, B, 72.6, 132.6-3.4°; H, O, 2-methyl-1-piperidyl, A, 94.5, 115.4-16.0°; H, O, 1,2-dihydro-2,2,4-trimethyl-1-quinolyl, A, 71.0, 125.5-6.2°; H, O, 1,2-dihydro-6-ethoxy-2,2,4-trimethyl-1-quinolyl, A, 94.2, 146.6-7.0°; H, O, 1,2-dihydro-6-phenyl-2,2,4-trimethyl-1-quinolyl, A, 40.5, 148.0-9.1°; 4-MeO, O, morpholino, A2, 95.7, 124.5-5.0°; 2-Cl, O, morpholino, A2, 93.8, 132.2-2.8°; 3-Cl, O, morpholino, A2, 98.3, 129.7-30.3°; 4-Cl, O, 4-morpholino, A2, 91.4, 200.8-1.4°; 3,4-Cl2, O, morpholino, A, 90.0, 157.1-7.8°; 3,4-Cl2, S, morpholino, B, 96.8, 197.5-8.1°; 3,4-Cl2, O, 1-piperidyl, A, 100.0, 175.0-5.8°; 3,4-Cl2, O, 2-methyl-1-piperidyl, A2, 97.5, 171.4-1.9°; 3,4-Cl2, O, 3-methyl-1-piperidyl, A, 56.5, 115.7-6.7°; 3,4-Cl2, O, 4-methyl-1-piperidyl, A2, 92.5, 144.0-4.8°; 3,4-Cl2, O, 1-pyrrolidyl, A, 97.8, 176.8-7.4°; 3,4-Cl2, O, 2-pyrrolidon-1-yl, A, 89.3, 151.8-2.7°; 3,4-Cl2, O, 3,4-Cl2, 2-thiono-1-pyridyl, A4,

90.5, 171.9-2.8°; 3,4-Cl₂, S, 2-thiono-1-pyrrolidyl, A7, 52.6, 126.7-7.2°; 3,4-Cl₂, O, 3-methylpyrazin-5-on-1-yl, A4, 62.3, 228.0-9.0°; 3,4-Cl₂, O, 2,4,6-trimethyl-1-piperidyl, A, 85.5, 135.3-6.1°; 3,4-Cl₂, O, 1-decahydroquinolyl, A, 99.7, 160.5-1.4°; 3,4-Cl₂, O, 2-decahydroisoquinolyl, A, 90.4, 144.0-5.0°; 3,4-Cl₂, O, 1,2-dihydro-6-ethoxy-2,2,4-trimethyl-1-quinolyl, A, 54.0, 139.3-40.2°. For 3,4-Cl₂C₆H₃NHCSNRR', R, R', procedure, % yield, and m.p. are: H, CH₂CH₂CH₂OH, A2, 99.0, 34-5°; H, 4-ClC₆H₄, B, 82.0, 154.2-4.9°; H, 3-ClC₆H₄, B, 75.5, 119.5-20.5°; H, Ph, B, 99.0, 136.1-7.0°; H, 3-BrC₆H₆, A7, 74.6, 107.5-8.3°; H, 3,4-Cl₂C₆H₃, B, 94.5, 162.6-3.5°; H, 2-thenyl, A, 99.0, 153.2-4.1°; iso-Pr, allyl, A2, 93.4, 80.8-1.6°; iso-Pr, MeC.tplbond.C, A2, 88.7, 77.2-7.8°. Procedures are given for new compds. 3,4-Cl₂C₆H₃XC₆H₄R, for which X, R, % yield, and m.p. follow: CONH, 3,4-d-Cl₂, 86.5, 232.6-3.3°; CSNH, 4-Cl, 77.0, 144.5-5.3°; CONH, 4-Cl, 80.0, 167.3-8.1°; CH₂NH, 4-Cl, 18.5, 169.0-0.5°; NHCH₂, 4-Cl, 18.0, 122.3-3.1°; NHCO, 4-Cl, 73.3, 176.6-7.4°; N:CH, 3,4-Cl₂, 86.5, 132.3-3.0°; N:CH, 4-Cl, 81.0, 103.7-4.4°; NHCH₂CO, 4-Cl, 80.0, 182.5-3.7°; NHCCH₂CONH, 3,4-Cl₂, 28.7, 227.8-8.6; CH:CHCOCH:CH, 3,4-Cl₂, 59.3, 202.1-2.8°; NHCOCOCH, 3,4-Cl₂, 27.3, 228.2-9.1°; NHC(:NH)NH, 3,4-Cl₂, 74.0, 181.1-2.0°; NHCOCH:CHCONH, 3,4-Cl₂, 85.0, 227-9°; NHCO₂CH₂CH₂OCONH, 3,4-Cl₂, 79.3, 217.3-18.0°; NHCONH(CH₂)₄NHCONH, 3,4-Cl₂, 100.0, 197.2-8.2°; NHCOC₆H₄ CONH-o, 3,4-Cl₂, 71.8, 256-7°; NHCONHC₆H₄NHCONH-p, 3,4-Cl₂, 94.3, above 360°; NHCONHCH₂, 3,4-Cl₂, 90.0, 194.7-5.8°; CH₂NHCONH, 4-Cl, 88.8, 213.2-13.7°; NHCO₂C₆H₄O₂CNH-p, 3,4-Cl₂, 84.5, 279-80°; NHSONH, 3,4-Cl₂, 70.6, 49.5-50.2°; NHCO₂CH₂CH₂SCH₂CH₂OCONH, 3,4-Cl₂, 87.3, 141.4-2.5°; CONHCONHCO, 3,4-Cl₂, 70.0, 199.6-200.4°; NHCSNHNHCSNH, 3,4-Cl₂, 89.9, 169° (decomposition); NHCONHNHCONH, 3,4-Cl₂, 88.8, 233-4°; NHCONHNH, H, 97.8, 172.2-3.1°; NHCO₂(CH₂)₄OCONH, 3,4-Cl₂, 86.0, 170.9-1.8°; CC₁₃CH:, 3,4-Cl₂, 74.9, 101.3-2.1°; NHCH:N, 3,4-Cl₂, 73.0, 158.3-9.1°; NHCO₂, 4-Cl, 88.8, 149.5-50.7°; NHCO₂, 3,4-Cl, 91.5, 148.1-9.1°. I (162.1 g.) at 75-80° treated dropwise with 60.0 g. MeC.tplbond.CBr, the slurry held 3 hrs. at 85°, cooled, neutralized at 20° (ice bath) with 30 g. NaOH in 500 cc. H₂O, the oil extracted with Et₂O, and the extract fractionated yielded N-(2-propynyl)-3,4-dichloroaniline, b7 152.7-3.4°, nD₂₅ 1.5991. I treated with CH₂:CHCH₂Cl and the product held 18 hrs. at 80-5° yielded N-allyl-3,4-dichloroaniline, b7.5 159.0-61.0, nD₂₅ 1.5859. EtOAc (1 l.) saturated with COCl₂, treated at reflux during 2-3 hrs. with 324 g. I in 1.5 l. EtOAc under a flow of COCl₂, the solution held 1 hr. at reflux, 1.5 l. EtOAc distilled at atmospheric pressure, and the remaining EtOAc removed under a gradually increasing vacuum yielded 90.5% 3,4-dichlorophenyl isocyanate, b10.5 116.7-18.1°, m. 40-1°. H₂O (350 cc) containing 58.0 cc. 38% HCl treated during 30 min. at 10-15° with 80.0 g. CSCl₂, the cooling bath removed, 128.0 g. I in 400 cc. PhMe added during 30-60 min., the product held 3 hrs. at 85°, filtered, and the PhMe layer separated and fractionated yielded 95.1% 3,4-dichlorophenyl isothiocyanate, b7.0 134.8-5.9°. 3,4-Br₂C₆H₃NH₂ by the same method yielded 86.5% crude 3,4-dibromophenyl isothiocyanate.

IT 121975-58-4, Urea, 1,1'-
 [(phenylcarbamoylimino)bis(trimethylene)]bis[3-phenyl-
 (and its bacteriostatic activity)
 RN 121975-58-4 CAPLUS
 CN Urea, N'-phenyl-N,N-bis[3-[(phenylamino)carbonyl]amino]propyl]- (CA

INDEX NAME)



OSC.G 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (17 CITINGS)

L4 ANSWER 29 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1937:33067 CAPLUS

DN 31:33067

OREF 31:4645f-i,4646a

TI Aliphatic polyamines. IV

AU van Alphen, J.

SO Recueil des Travaux Chimiques des Pays-Bas et de la Belgique (1937), 56, 343-50

CODEN: RTCPB4; ISSN: 0370-7539

DT Journal

LA Unavailable

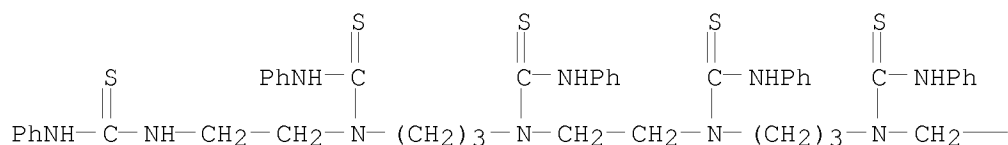
AB cf. C. A. 31, 1007.3. (CH₂)₃Br₂ (240 g.), 360 g. of (CH₂)₂(NH₂)₂.H₂O and 250 cc. absolute EtOH give 67 g. of 1,3-bis(2'-aminoethylamino)propane (I), b₁₂ 157°, 36 g. of II and 13 g. of III. II is triethylenebis(trimethylene)hexamine, b₁₄ 252°; it is a strong base and gives the same precipitation and color reactions as I; it gives a reddish violet biuret reaction with a small amount of Cu salt; HCl salt, with 2 mols. H₂O, m. 275°; H oxalate, C₁₂H₃₂N₆.6C₂H₂O₄, amorphous, m. 235°; picrate, yellow, m. 220°; the condensation product with PhNCS, 1,16-bis(2'-phenylthioureido)-3,7,10,14-tetraphenylthiocarbamido-3,7,10,14-tetraazaheptadecane, PhNHCSNH[CH₂CH₂N(CSNHPh)CH₂CH₂CH₂N(CSNHPh)]₂-CH₂CH₂NHCSNHPh, amorphous, m. 135-40°; II and CS₂ in EtOH give a yellow, amorphous precipitate; heating at 190-200° splits off H₂S and gives 1,3-bis[3'-(2'-thiotetrahydroimidazolyl-1'')-propyl]-2-thiotetrahydroimidazole, m. 166-7°. Reaction of II with BzH and reduction with Na in absolute EtOH gives 1,20-diphenyl-2,5,9,12,16,19-hexaazaeicosane, with 2 mols. H₂O, m. 54°; the HCl salt, C₂₆H₄₄N₆.6HCl, m. above 300° (decomposition); nitrate, m. 211°; picrate, yellow, m. 211°; the HCl salt and NaNO₂ give the hexa-NO derivative, m. 86°. III, b₁₄ 316°, is a mixture containing 1,4,8,11-tetraazacyclotetradecane; this also is formed from I and (CH₂)₃Br₂; HCl salt, C₁₀H₂₄N₄.4HCl.H₂O; nitrate, m. 205° (decomposition); picrate, decomp. 210°; H oxalate, decomp. 221°; with BzH on reduction there results a small quantity of 1,27-diphenyl-2,5,9,12,16,19,23,26-octaazaheptacosane, whose HCl salt, C₃₁H₅₆N₈.8HCl, m. above 300°; this indicates that 1,23-diamino-3,7,10,14,17,21-hexaazatricosane is present in III. Other fractions, b₁ 244° and b₁ 275°, are amines of the type (CH₂CH₂NHCH₂CH₂CH₂)_n.

IT 854247-55-5P, Ethylenediamine,
N,N'-bis[3-[3-phenyl-1-[2-(3-phenyl-2-thioureido)ethyl]-2-thioureido]propyl]-N,N'-bis(phenylthiocarbamyl)-
RL: PREP (Preparation)
(preparation of)

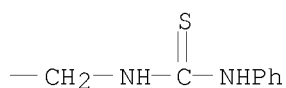
RN 854247-55-5 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A



PAGE 1-B



OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

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AN 1937:7774 CAPLUS

DN 31:7774

OREF 31:1007b-g

TI Aliphatic polyamines. III

AU van Alphen, J.

SO Recueil des Travaux Chimiques des Pays-Bas et de la Belgique (1936), 55, 835-40

CODEN: RTCPB4; ISSN: 0370-7539

DT Journal

LA Unavailable

AB cf. C. A. 30, 7100.4. 1,3-Bis[(2'-aminoethyl)amino]-propane (I), b. 286-7°, b35 185-6°, was prepared along with another amine, b35 274-6°, by adding slowly 150 g. of CH₂(CH₂Br)₂ in 250 cc. of absolute alc. to 250 g. of 1,2-diaminoethane hydrate. The mixture was warmed for 1 hr., 200 g. KOH added, warmed 0.5 hr., filtered, distilled, the residue cooled, separated from solid KOH, and redistd. in vacuo. I forms a tripicrate, m. 171°, by adding a solution of picric acid to a solution of the amine, and a tetrapicrate, m. 223° (indefinite), by the reverse procedure or by heating the tripicrate with picric acid. Its tetraoxalate m. 237°. I in H₂O is basic, gives a white precipitate with Nessler's reagent, phosphotungstic acid, reduces Ag salts and KMnO₄ but not Fehling solution, reacts with Br water and with I₂ in KI solution, gives a reddish violet color with a Cu salt and a rose-red with a Ni salt. The following derivs. of I have been prepared: 1,3-bis{3'-phenyl-1'-[2'-(3''-phenylureido)ethyl]ureido}propane, m. 145-55°, by mixing with PhNCO in ether solution; 1,3-bis{3'-phenyl-1' - [2' - (3'' - phenylthioureido)ethyl]thioureido}propane, m. 179°, with PhNCS; 1,3-bis{[2'-(benzoylamino)ethyl]-benzoylamino}propane, m. 172°, by the Schotten-Baumann method; 1,3 - bis(2' - thiotetrahydroimidazolyl - 1' -)propane, m. 156°, by heating at 140° the precipitate formed with CS₂ in alc.; 1,3-bis-{[2'-(benzylamino)ethyl]amino}propane (II), from the reaction of I with 3 mols. of BzH, the product dissolved in absolute EtOH, 6 atoms Na added, the HCl salt precipitated with HCl (m. 270-90°

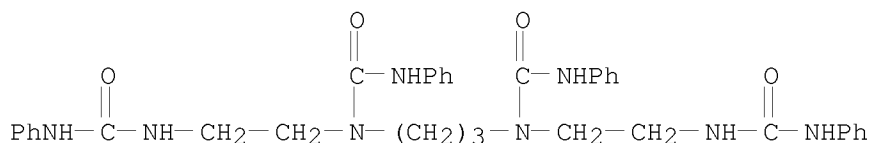
(decomposition)), and the free base obtained as an oil by treating with strong NaOH. The oil solidifies and crystallizes from H2O with 1 H2O, m. 44°; tetrapicrate, m. 201°; tetraoxalate, m. 247°.

II forms the following derivs.: 1,3-bis{[2'-(benzyl-nitrosoamino)ethyl]nitrosoaminolpropane, m. 99°, with NaNO2 and HCl in H2O; 1,3-bis{3'-phenyl-1'-[2''-(1'''-benzyl-3'''-phenylthioureido)ethyl]thioureido}propane, m. 130-5°, with PhNCS in alc.; 1,3-bis(2'-phenyl-3'-bensyltetrahydroimidazolyl-1'-)propane, m. 123°, with 1 mol. BzH, the mixture dissolved in ether and dried over anhydrous Na2SO4 and evaporated; 1,3-bis[2'-(p-methoxyphenyl)-3'-benzyltetrahydroimidazolyl-1'-]propane m. 110°, with anisaldehyde as above.

IT 854657-59-3P, Urea, 1,1'-trimethylenebis[3-phenyl-1-[2-(3-phenylureido)ethyl]- 854657-61-7P, Urea, 1,1'-trimethylenebis[3-phenyl-1-[2-(3-phenyl-2-thioureido)ethyl]-2-thio-
RL: PREP (Preparation)
(preparation of)

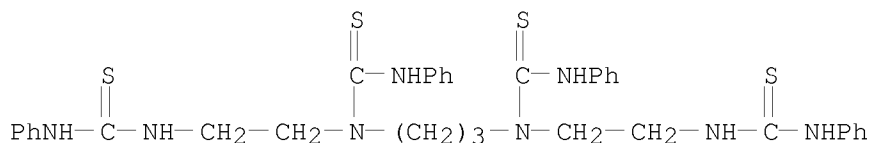
RN 854657-59-3 CAPLUS

CN 2,5,9,12-Tetraazatridecanediamide,
N1,N13-diphenyl-5,9-bis[(phenylamino)carbonyl]- (CA INDEX NAME)



RN 854657-61-7 CAPLUS

CN 2,5,9,12-Tetraazatridecanedithioamide,
N1,N13-diphenyl-5,9-bis[(phenylamino)thioxomethyl]- (CA INDEX NAME)



OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L4 ANSWER 31 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1936:45195 CAPLUS

DN 30:45195

OREF 30:5992h-i,5993a-e

TI Aliphatic polyamines. I

AU van Alphen, J.

SO Recueil des Travaux Chimiques des Pays-Bas et de la Belgique (1936), 55, 412-18

CODEN: RTCPB4; ISSN: 0370-7539

DT Journal

LA English

AB 1,2-Bis(aminoethylamino)ethane (I), the triethylenetetramine of Hofmann (Ber. 3, 762(1870); 4, 666(1871); 23, 3297, 3711(1890)) is prepared in good yield as follows: pour 150 g. (CH2Br)2 in 125 cc. absolute EtOH slowly into 250 g. of 1,2-diaminoethane hydrate in 125 cc. absolute alc., reflux 1 hr.,

add 250 g. solid KOH and continue heating 10 min., stand overnight, filter, distil at atmospheric pressure to 130°, cool. Distil the upper layer in vacuo. Two fractions are obtained: I, b31 174°, and 1-(aminoethylaminoethyl)-piperazine or tetraethylenetetramine (II), b31 266-70°. I loses its 0.5 mol. H2O when distilled at ordinary pressure and b. 272°. It is characterized by its tetra-Bz derivative m. 236° (from alc.). I yields the following derivs.: 1,2 - bis{3' - phenyl - 1' - [2'' - (3''' - phenylthioureido)-ethyl]ureido}ethane, m. 237°, by adding PhNCO in ether and recrystg. the precipitate from EtOH; 1,2-bis-{3'-phenyl-1'-[2''-(3'''-phenylthioureido) ethyl]thioureido}ethane, m. 206°, by mixing with PhNCS in absolute alc. and purifying the insol. precipitate by extracting with boiling alc.; 1,3-bis(2''-benzylidene-aminoethyl)-2-phenyltetrahydroimidazole, m. 86° (immediately decomposed by dilute HCl), from 14.6 g. I and 31.8 g. BzH; 1,2-bis-[[(2''',4'''-dinitrophenyl) { (2'',4''-dinitrophenylamino) ethyl}] amino} -ethane (III), m. 285°, by boiling 6.7 g. I, 5 g. 1-bromo-2,5-dinitrobenzene, 5 g. NaOAc and 20 cc. EtOH for 1 hr., extracting the amorphous precipitate with H2O and boiling alc., dissolving in hot Me2CO (from which it suddenly ppts. as crystals and is then insol.), and recrystg. from boiling PhNO2; 1,2-bis(3'-thiotetrahydroimidazole-1')-ethane, m. 265° (recrystd. from H2O), by mixing alc. I with alc. CS2 and heating the precipitate of yellow thiocarbamate which loses H2S at 120-40°; 1,2 - bis{[(2''',4''',6''' - trinitrophenyl) {(2'',4''6''-trinitrophenylnitramino)ethyl}]amino}-ethane, which decomposes at 165° and explodes when heated suddenly, was prepared from 0.5 g. III and 5 cc. HNO3 cooled to - 15°, and precipitated by adding ice water slowly. II, a strong base, is a pale yellow viscous liquid with tobacco-like smell, miscible with H2O and EtOH but not with Et2O. Its formula is proved by the formation of the following compds.: tetra-picrate, m. 212°, tetra-oxalate, m. 289°, tri-Bz derivative: 4-benzoyl-1-[2'-{(benzoyl) (2''-benzoylaminoethyl)-amino}ethyl]-piperazine, prepared by the Schotten-Baumann method but could not be crystallized; its di-picrate, m. 221°; 4 - phenylthiocarbamido - 1 - {2' - [{phenylthiocarbamido-[2'' - (3''' - phenylthioureido) ethyl]amino}ethyl] piperazine, m. 132-40° (decomposition) from the reaction of alc. II with alc. PhNCS and repeatedly extracted with boiling alc.; and the mono-Bz derivative, 1-(benzylaminoethylaminoethyl)-piperazine-H2O, m. 50° (recrystd. from H2O), prepared by mixing 1 mol. of II with 2 mols. BzH, dissolving in absolute EtOH, adding 4 atoms Na, precipitating with strong HCl

and

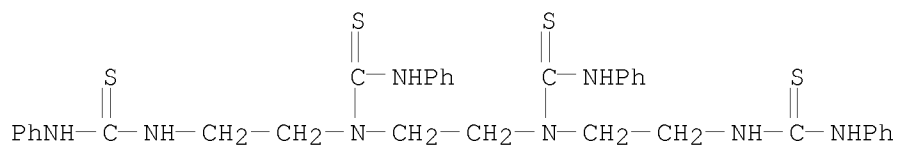
treating with H2O and NaOH; its tetra picrate, m. 212° (decomposition).

IT 88936-58-7P, Urea, α,α' -ethylenebis[β -phenyl- α -[β -(β -phenylthiocarbamido)ethyl]thio-122595-05-5P, Urea, α,α' -ethylenebis[β -phenyl- α -[β -(β -phenylcarbamido)ethyl]- 858833-83-7P, 1-Piperazinecarboxanilide, 4-[β -[β -phenyl- α -[β -(β -phenylthiocarbamido)ethyl]thiocarbamido]ethyl]thio-
RL: PREP (Preparation)

(preparation of)

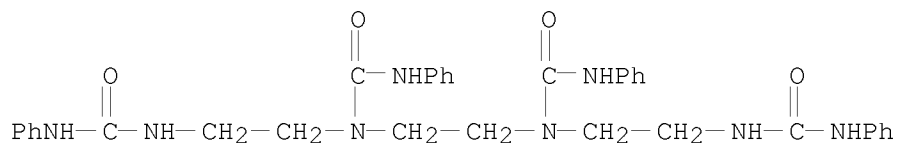
RN 88936-58-7 CAPLUS

CN 2,5,8,11-Tetraazadodecanedithioamide,
N1,N12-diphenyl-5,8-bis[(phenylamino)thioxomethyl]- (CA INDEX NAME)



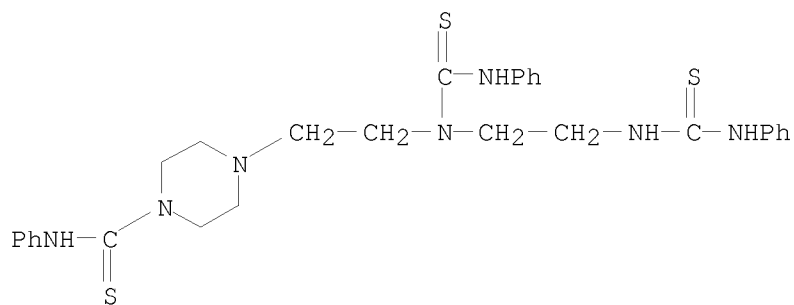
RN 122595-05-5 CAPLUS

CN 2,5,8,11-Tetraazadodecanediamide, N1,N12-diphenyl-5,8-bis[(phenylamino)carbonyl]- (CA INDEX NAME)



RN 858833-83-7 CAPLUS

CN 1-Piperazinecarbothioamide, N-phenyl-4-[2-[[(phenylamino)thioxomethyl] [2-[[(phenylamino)thioxomethyl]amino]ethyl]amino]ethyl]- (CA INDEX NAME)



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)